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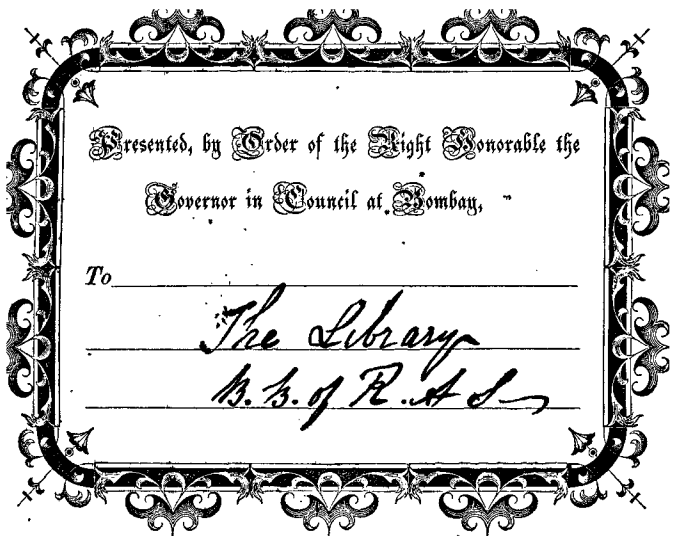

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MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

MADE AT THE

HONORABLE EAST INDIA COMPANY'S OBSERVATORY,

BOMBAY.

1857.

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS

MADE AT THE

HONORABLE EAST INDIA COMPANY'S OBSERVATORY, BOMBAY,

IN THE YEAR 1857,

UNDER THE SUPERINTENDENCE OF

LIEUTENANT E. F. T. FERGUSSON, I. N., F.R.A.S.

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BOMBAY MAGNETICAL OBSERVATORY.

PART I.

MAGNETICAL OBSERVATIONS.

1857.

INTRODUCTION TO THE MAGNETICAL OBSERVATIONS

FOR 1857.

SITUATION OF THE OBSERVATORY.

THE Government Observatory at Bombay is situated nearly at the southern extreme of the Island of Colaba, and consists of several small buildings, in a large compound, entirely walled round. It is bounded on the west by the public road from the Fort of Bombay, on the east by the sea forming the entrance to the Harbour, on the south by the Lighthouse, and on the north by the compound of a private house. Its distance from the Fort is about two miles and a third.

Its latitude is ..... + 18°53′30″
Its longitude is..... − 4*h*. 51*m*. 16·32*s*,*

The latter being dependent on the longitude of Madras Observatory, supposed to be 5*h*. 20*m*. 57·28*s*. as determined by the late Mr. Taylor, Astronomer.

The "difference of longitude" between Madras and Bombay, as determined from the measurements of the G. T. S. of India, gives the longitude of the Bombay Observatory —4*h*. 51*m*. 12·3*s*., and this longitude has been adopted by Hydrographers in preference to the above, although the difference is only one minute of arc.

The grounds of the Observatory are well studded with trees, principally Bora trees (*Ziziphus lotus*), which emit a very offensive odour when in blossom; there are also a few Date, Palm, and Mango trees, one or two Tamarind trees, and several sorts of shrubs.

The soil is partly of greenstone, but principally of reddish earth, of a very productive nature; the latter, however, is not deep, and rests on a rocky foundation, which, in many places, rises above the usual level of the surface. The grounds, though tolerably even in the western half of the compound, have a gradual slope towards the sea in the eastern half, which accomplishes a quick drainage in heavy rains, and thereby prevents undue moisture.

* Found by Lunar transits, and occultations of Stars and Planets by the Moon, from several series of observations made at this Observatory from 1840 to 1853, but the Instruments are not of the highest order as in England and in Europe.

Buildings in the Observatory.—The Magnetical Department of the Observatory consists of six separate buildings; and the Astronomical Department is made of a large Transit-room and two Domes, as described in the preceding volumes. Adjoining the Transit-room, and connected with it by a covered passage 14 by 9 feet, is a large office 64 feet by 49 feet; this room is used for copying Charts and Plans, and also for keeping a stock of Charts and Mathematical Instruments for the use of the Government Vessels of War, and belongs exclusively to the Hydrographical Department of the Indian Navy. In addition to these buildings, I have to add that a dwelling-house, with out-offices, is provided for the Superintendent, also one for the First Assistant in the Magnetical Department, and suitable quarters for other Assistants and Observers attached to the Observatory Departments.

Staff of the Observatory.—During the year 1857 the staff of the Observatory was as follows:—

MAGNETICAL DEPARTMENT.

Goverdhun Luxumon C.....	First Assistant.
Sadashive Gungadhur	Second Assistant.
Naro Balcrishna*	Observer.
Luxumon Moreshwar	Observer.
Crishnajee Appajee	Observer.
Narrayen Ramchunder	Computer.

ASTRONOMICAL DEPARTMENT.

Janardan Ramchunder.

The Astronomical Department, which is principally for the purpose of getting the correct time by observed transits of the stars, and signalling the same by drop of flag to the Shipping in the Harbour at 1*h.* P. M. (the Observations, however, are not published) is under my immediate and personal superintendence.

In the Magnetical Department the system adopted in the year 1857 was the same as that in the preceding year.

Besides the duties of the Observatory, the Superintendent is charged with the Hydrographical Department of the Indian Navy. The superintendence of the Observatory is an adjunct to the appointment of the Hydrographer; and the office of the latter being in the Naval Department, both are under the orders of the Commander in Chief of the Indian Navy.

The Results for 1857 were deduced under my direction by the First Assistant, Goverdhun Luxumon C., assisted by the Second Assistant.

* Hurry Chintamon was appointed an Observer on the 13th of June 1857, to fill the place vacated by Naro Balkrishna, who had been promoted to Second Assistant, vice Sadashive Gungadhur, deceased.

The Instruments actually observed in the Magnetical Department are as follows :—

MAGNETICAL INSTRUMENTS.

Declinometers (large and small).
Horizontal Force Magnetometers (large and small), with their attached Thermometers.
Vertical Force Magnetometer, with its attached Thermometer.
Dip Circle.
Apparatus for Deflections.

METEOROLOGICAL INSTRUMENTS.*

Barometers, Nos. 58 and 48, with their attached Thermometers.
Thermometers (six), in the Thermometer shed.
Wind Anemometers (two), by Osler and Lynd.
Rain Gauges, Nos. 1 and 2.
Electrical Apparatus.
Tidal Apparatus.

Göttingen Mean Time has been strictly adhered to in taking Magnetical Observations, and Bombay Civil Time has been used in observing Meteorological Instruments.

Throughout the year 1857 all the Magnetometers and Meteorological Instruments were observed hourly, duly registered, and curved every day, except on Sundays, Christmas Day, and three or four other holidays.

Besides these, there were the Monthly Term Day Observations; also the Observations of Meteorological and Magnetical Disturbances, when necessity required.

DECLINATION.

The Large Declinometer was obtained from Grubb, of Dublin, and is of exactly the same construction as that described in the Report of the Committee of the Royal Society for 1840.

The Small Declinometer is the same as the Unifilar Magnetometer described in page 60 of Lieutenant Riddle's "Magnetical Instructions," with the exception that it has no glass bell over it.

THE DIMENSIONS.

The dimensions of the Magnets used are in parts of a foot and grains :—

	Large Declinometer Magnet.	Small Declinometer Magnet.
Length.....	1·25 feet.	2·46 inches.
Breadth	0·0715 ,,	
Thickness	0·0208 ,,	0·30 inch.
Weight	62,030 grains, Troy.	

* The description of Meteorological Instruments will be given in the second part of this volume.

These Magnets are suspended by fibres of untwisted silk; the large Magnet with 50 fibres, and the small with 2 fibres.

The value of one integer of Scale Reading of large is = 6′841, and of small Magnetometer is = 5′23.

The Zero Point of the

Large Declinometer scale, as determined in January 1856, = 28·3064 Sc. Div.
Small Declinometer scale, as determined in December 1855, = 30·375 Sc. Div.

The Torsion Force of the

Large Declinometer, as determined in January 1856, $= 1 + \frac{H}{F} = 1{\cdot}003009$

Small Declinometer, Mean Value in the year 1857, $= 1 + \frac{H}{F} = 1{\cdot}0019$

For further details, vide Introduction to Magnetical Observations for 1855.

Both of these Magnets, during the year 1857, remained under the adjustments of the preceding year.

The values of Absolute Declination obtained from the Scale Readings of small Declinometer are considered as differential; they serve as a check on the Observations of the large instrument.

TABLE I.—*Showing the Declination in Arc, as obtained from the Scale Readings of Small Declination Magnetometer.*

1857.	Mean Monthly Values of Declination by S. D. M.	Excess above the Values obtained from Large Declinometer.	1857.	Mean Monthly Values of Declination by S. D. M.	Excess above the Values obtained from Large Declinometer.
January	0°18′18	− 1′62	July	0°18′41	− 0′65
February	·18·12	− 1·90	August	·19·28	+ 0·42
March	·17·96	− 2·04	September	·19·44	+ 0·59
April	·17·67	− 1·84	October	·18·95	+ 0·89
May	·18·04	− 1·65	November	·18·92	+ 0·23
June	·18·12	− 1·69	December	·18·84	− 0·12

This Table shows that the Values of Declination obtained from small Declinometer were uncertain within about 2′ of arc.

The difference in the values obtained by the Large and Small Declinometers may arise from the Smaller Magnet not being so strongly magnetic as the standard bar, and, from its lightness, more susceptible to movement and change.

The following table shows that no material change has occurred in the moment of Large Declination Magnet, as the time of vibration in one month was nearly equal to the time of vibration in the other.

TABLE II.—*Showing the Times of Vibration of Large Declinometer in its perfect adjustment during the Year* 1857.

1857. Month and Date.	Time of one Vibration in Hor. Plane.	Excess above the Mean of the Year.	1857. Month and Date.	Time of one Vibration in Hor. Plane.	Excess above the Mean of the Year.
January..... 24	12·95	− 0·01	July 31	12·92	− 0·04
February 20	13·05	+ 0·09	August 28	12·95	− 0·01
March 28	13·00	+ 0·04	September..... 30	13·00	+ 0·04
April..... 28	13·00	+ 0·04	October..... 30	12·95	− 0·01
May 29	12·98	+ 0·02	November..... 30	12·93	− 0·03
June 30	12·88	− 0·08	December 30	12·95	− 0·01

Mean Time of Vibration was about 0·05 second greater than the mean of the last year.

HORIZONTAL FORCE.

The Diurnal Changes of the Earth's Magnetic Horizontal Force have been observed hourly, with two instruments. One, the large Horizontal Force Magnetometer in the large Observatory, is of the same construction as that which is described in the Report of the Royal Society for 1840. The other is the Small Horizontal Force Magnetometer, in the small Observatory, which is of exactly the same description as the Bifilar, described in Lieutenant Riddle's Magnetical Instructions.

The dimensions of the Horizontal Force Magnets are as follows :—

Large Magnet.		Small Magnet.	
Length	= 1·25 feet.	Length	= 2·99 inches.
Breadth.....	= 0·072 „	External diameter	= 0·30 „
Thickness	= 0·021 „	Thickness	= 0·16 „

The Arc Value of one Scale Division of large Magnet is, *one integer* = 10′933; and 5′53 is the Arc Value of one Division of the Scale of Small Horizontal Force Magnet.

During the year 1857 the Large Horizontal Force Magnetometer remained under the same adjustments as the preceding year. The Small Horizontal Force Magnetometer was re-adjusted about the close of the year.

Adjustment of Small Horizontal Force.

16*th December* 1857.—The box of the Small Horizontal Force Magnetometer was opened at 18h. 25m. G. M. T., with a view to re-adjust it for the new year.

Scale Reading..14·38. Attached Thermometer..71°5.

The Magnet was then removed from the Horizontal Force Box to the Vibration Apparatus, in order to ascertain the time of Vibration with a single thread in the plane

of the Meridian; and also to find out the co-efficient of Torsion. The observed Values are $t = 2{\cdot}735s.$ and $1 + \frac{H}{F} = 1{\cdot}0017$.

The time of one Vibration, when hung by the double thread, was calculated from the observed t and v by the formula:—

$$t' = \sqrt{t^2 + 1 + \frac{H}{F}\frac{\sin v}{1+\sin v}}$$

$$= \sqrt{(2{\cdot}735)^2\, 1{\cdot}0017\ \frac{\sin 58{\cdot}08}{1+\sin 58{\cdot}08}}$$

$$= 1{\cdot}855$$

The Magnet was suspended with the double thread of two fibres, and the Torsion Circle turned until the Magnet nearly rested in the Magnetic Meridian; the Mirror was so placed as to obtain the reading about the middle of the scale.

The intervals between the wires were changed until t' by observation was near enough to the calculated value. The Torsion circle read 45°10′ when observed $t' = 1{\cdot}853s.$

From this last value of t' the angle v and the value of t'' were calculated and found to be:—

$$v = 58°01'31''$$
$$t'' = 3{\cdot}461s.$$

The Torsion Circle was then changed through the angle of $90° + v$ in the direction in which the north end of the Magnet will be towards the west. The Mirror was also changed without stretching the suspension thread, until the division about the middle of the scale was on the middle of wire of the Reading Telescope.

The time of t'' on this reading of Torsion was greater than the calculated value of t''; consequently the Torsion pin was turned slowly forward until t'' by observation was equal to $3{\cdot}458s.$ and Torsion Circle read 266°35.

The adjustment was completed, and the box closed at 21h. G. M. T.

In Horizontal Force Magnetometer the Magnetic Bar is forced to a position at right angles to the Magnetic Meridian, by turning the arms of the Torsion Circle, and the upper extremities of the suspension wire move through a greater angle than the lower extremities, consequently the wires are no longer vertical, and the Magnet, together with its appendages, will be raised. The Forces producing equilibrium will, therefore, be the suspended weight struggling to attain the lowest point, and the Earth's Magnetic Horizontal component of Intensity acting on the free Magnetism of the Bar.

With respect to the suspension wire of the large Magnet, and the suspension thread of the small one, no allowance appears to have been hitherto made for a pecu-

liar twist which is produced in them by remaining, for a certain lapse of time, in one position, or the lengthening of the wires from the same cause: it is considered that owing to this cause the small rise in the Readings of the Large Horizontal Force takes place.

From the foregoing considerations it will be evident, that in order to produce the true values of the changes in the Horizontal component of the Earth's Magnetic Force, it is necessary to make the following allowances:—

1st. Allowance for the regular decrease or increase in the Moment of the Bar.

2nd. „ for the decrease or increase in the Moment of the Bar on account of changes in Temperature.

3rd. „ for the effect of Moisture on the suspension threads.

4th. „ for the regular loss in the Torsion of the suspension threads.

These corrections are discussed in the following pages.

TEMPERATURE CORRECTIONS.

The Temperature correction for Large Horizontal Force Magnetometer was obtained by comparing the Scale Readings of the Instrument at different Temperatures of attached Thermometer, and finding the mean change for one degree. The following Table shows the Scale Readings at different Temperatures, reduced to the constant value of Horizontal Intensity 8·035.

TABLE III.

Number of Observations.	The Temperature of attached Thermometer L. H. F.	Scale Readings of Large Horizontal Force Reduced to 8·035.	Difference.	Remarks.
1	79°1	19·99	− 0·81	
1	80·0	19·18	+ 1·14	
2	80·9	20·32	− 0·64	The differences are not regular; a rise in Temperature is not always followed by a fall in the Scale Readings of Horizontal Force.
3	81·8	19·68	− 0·50	
4	82·8	19·18	− 0·21	
1	84·1	18·97	− 0·02	
3	84·8	19·95	+ 0·02	
2	86·2	18·97	− 0·24	
3	87·1	18·73	+ 0·02	
5	88·0	18·75	− 0·12	
2	89·2	18·63	− 0·40	
3	89·9	18·23		

In the actual calculations made during this year, 0·20 has been the assumed effect of Temperature on the Scale Readings of Large Horizontal Force Magnet; however, the correction obtained from Table III. gives $\theta = 0{\cdot}164$.

EFFECT OF MOISTURE.

The Scale Readings of Large Horizontal Force, which is suspended by a silver wire, are supposed not to be affected by Atmospheric Moisture; but the Scale Readings of Small Horizontal Force are constantly affected by the changes of Moisture. This has been fully discussed in the Volume for 1848.

The necessary correction of Moisture, and the Temperature of attached Thermometer, as ascertained from the Scale Values of Small Horizontal Force Magnetometer in the year 1857, is $\theta = 0{\cdot}0041$ and $\theta' = -0{\cdot}1347$ for each degree of the Depression of Wet Bulb Thermometer.

GAIN AND LOSS OF MAGNETISM IN THE MAGNETS OF THE LARGE AND SMALL HORIZONTAL FORCE MAGNETOMETERS.

The small hollow cylindrical Magnet (H·36), used in the Small Horizontal Force Magnetometer, is subject to a constant loss of Magnetism ever since it has been in use, and the same may be said of all the other small Magnets. The Mean Monthly change in the time of Vibration of the Small Horizontal Force is found to be 0·0030 second.

The Large Horizontal Force Magnetometer has been now in operation for nearly fifteen years, and it has always indicated an increase of force from year to year.

It has been already noticed that the silver suspending wire of the Large Horizontal Force Magnetometer, after a lapse of time, becomes peculiarly, though perhaps slightly twisted, and also lengthens, or loses its inherent elastic force; and if such be the case, the Scale Readings would apparently increase. This point would have been ascertained, had the time of one Vibration of the Magnet (suspended by a single wire at each new adjustment of the Instrument) been known; but as this could not be accomplished, the question yet remains unsettled. From this it appears that the increase in the Readings of the Large Horizontal Force Magnetometer is owing to any one of the following causes:—

An increase in the Magnetic Horizontal Force of the Earth;
An increase in the Magnetic Moment of the Bar;
Or from the loss of the inherent elastic power, or the lengthening of the silver wire by which the Magnet is suspended.

CHANGES IN THE MOMENTS OF MAGNETS.

The Intensity Calculations are made on the supposition that the increase or decrease of Scale Reading, in the Large Horizontal Force Magnetometer, goes on regularly throughout a year; but this is far from being the case, as these changes are sometimes very irregular. During the year 1857 the daily increase in the Scale Readings of Large Horizontal Force was about 0·002673, and in the Scale Readings of Small the increase was about ·012984 for each day.

REDUCTION OF THE HOURLY OBSERVATIONS OF THE LARGE HORIZONTAL FORCE MAGNETOMETER.

It has been clearly shown, in the foregoing investigations, that the Scale Readings of the Horizontal Force Magnetometer are subject to various changes, arising from causes quite distinct from the Earth's Magnetic Force, such as Temperature and Moisture; the changes produced from these local causes must, therefore, be allowed for, before the true changes in the Earth's Magnetic Force can be determined.

The notation used in the following formula was the same as adopted in the preceding years:—

$$\frac{\delta x}{X} = k \{ f - Q(t° - 80°) - PN - F \}$$

In the calculation of the absolute Horizontal Intensity, from the Scale Readings of the Horizontal Force Magnetometer, the following formula was used:—

$$X + \delta x = 7{\cdot}9932 + 0{\cdot}0164 \{ f - 0{\cdot}00\,N + 0{\cdot}20\,(t° - 80°) - 18{\cdot}00 \}$$

The Intensity calculated from this formula will be the Absolute Measure of Intensity, in English units, which is given in the Hourly Observations of this year.

The method adopted in this Observatory, which gives the changes of the Earth's Magnetic Force in Absolute Measure, differs from all the other Observatories, as they give the changes *in parts* of the whole Horizontal Force.

EFFECT OF THE ATMOSPHERE ON THE MAGNETIC INTENSITY OF THE EARTH.

The Scale Readings of the Horizontal Force Magnetometer were reduced for all corrections, viz. Temperature effect, Instrumental and incidental errors; and from the Readings, so corrected, were found the Absolute Values of the Horizontal Intensity. Now it is necessary to remark that the Intensity thus obtained was found to be still affected by the Temperature, not as indicated by the attached Thermometer, but of the external and circumambient air. It was supposed that the circumambient air was Magnetic, and that its Magnetism was either inherent or induced by the Earth.

Comparisons made during the year 1857 showed that a change of 1° in the Temperature of External Air produces a change of 0·0016 in Values of Absolute Horizontal Force.

The Horizontal Intensity in the Results is corrected by the formula:—

$$C = -0{\cdot}0016\,(t° - 80°0)$$

in which C denotes the correction, and $t°$ the Temperature of circumambient air.

ABSOLUTE DETERMINATION OF HORIZONTAL FORCE.

The Instrument used for the purpose of Deflections is the small Declinometer in the Small Magnetic Observatory; and that which is used for the Vibrations is another Small (Declination) Instrument, fixed in the North-Eastern angle of the same Observatory.

The Observations were made according to the method of Professor Gauss, and also the notation used was the same. The Deflected Magnet is a small solid cylinder (marked I·11), 2·46 inches long; and the Deflecting or Vibrated Magnet is also a solid cylinder (marked A·51), 3·00 inches long.

The Determinations were made once a week, at about 20*h*. Göttingen Mean Solar Time, or Noon Bombay Mean Time. The time occupied in making these Observations on any day was about one hour. During this period the changes both

of Temperature and Horizontal Force were very slight, so that no error affected the resulting Values, as the corrections on account of Temperature and Change of Horizontal Force were considered as nothing.

The Absolute Value of Horizontal Force, obtained in English units, has been calculated by the formula—

$$X = \frac{\pi}{t}\sqrt{\frac{2}{1+k}\,\frac{K}{R^3 \tan u}}$$

The Moment of Inertia of the solid Cylinder Magnet (A·51), as determined in December 1855, was 2·250. In the actual calculations of Horizontal Intensity of this year it was used without any alteration.

Probable error of an Observation of Absolute Determination of Horizontal Force, as explained in the Volume of 1848, is about 0·008.

TABLE IV.—*Showing the Mean Monthly Values of Horizontal Force, as obtained from the Deflection Observations in* 1857.

Months.	Mean Date.	L. M.	X. Or Horizontal Intensity in E. Units.	Corresponding Reading of Large Horizontal Force.		Corresponding Reading of Small Horizontal Force.		Torsion Force.		Number of Observations.
				Scale Reading.	Attached Thermometer.	Scale Reading.	Attached Thermometer.	Deflected Magnet A·51.	Deflected Magnet I·11.	
January	21	0·0840	8·033	19·84	80·7	18·91	75·5	1·0013	1·0023	3
February	13	·0839	·035	20·03	81·8	18·73	76·7	·0013	·0022	3
March	17	·0840	·039	19·22	85·9	18·10	83·2	·0013	·0022	4
April	6	·0839	·035	18·97	87·2	17·83	85·6	·0013	·0022	2
May.....	13	·0838	·036	18·43	89·5	16·47	87·6	·0007	·0015	5
June.....	10	·0837	·040	19·23	88·2	17·63	85·9	·0005	·0015	2
July.....	8	·0836	·034	18·72	87·4	17·56	85·8	·0015	·0015	2
August.....	6	·0836	·039	19·23	82·6	18·36	80·8	·0012	·0015	1
September*.....	16	·0836	·032	18·50	83·0	17·69	80·4	·0015	·0015	4
October	20	·0836	·033	18·67	85·1	16·55	81·2	·0015	·0019	4
November	13	·0835	·038	19·26	84·0	15·14	79·2	·0017	·0026	2
December	13	·0839	·051	19·79	81·7	14·18	74·9	·0018	·0023	3
Annual Mean.....		0·0838	8·0375	19·22	84·9	17·26	81·6	1·0013	1·0019	33

* The month of September was omitted in finding out the Annual Mean Values.

The Monthly Values of Horizontal Intensity are accompanied by the corresponding Scale Readings of the Large Horizontal Force Magnetometer; they indicate the readings uncorrected at the middle time of Absolute Determination.

The Magnetic Moment of the Deflecting Magnet (A·51) is also given along with the Absolute Values of Horizontal Force; it has been calculated by the formula,—

$$LM = XR^3 \tan u \left(\frac{1+k}{4}\right).$$

The Small Horizontal Force Magnetometer serves only as a check on the Observations of the Large Horizontal Force Magnetometer; and as the Small Instrument works under various disadvantages, no other results have been calculated from its Scale Values, except the Monthly Means.

TABLE V.—*Showing the Horizontal Force of the Earth, calculated from the Scale Readings of Small Horizontal Force Magnetometer during the Year* 1857.

Months.	Mean Monthly Horizontal Force obtained from S. H. F.	Excess above the Mean of Large H. F.	Months.	Mean Monthly Horizontal Force obtained from S. H. F.	Excess above the Mean of Large H. F.
January	8·0491	+ 0·0292	July.....	8·0421	+ 0·0174
February.....	·0424	+ 0·0174	August.....	·0508	+ 0·0280
March.....	·0416	+ 0·0141	September	·0454	+ 0·0257
April	·0367	+ 0·0085	October	·0347	+ 0·0093
May.....	·0322	+ 0·0039	November	·0175	− 0·0064
June.....	·0433	+ 0·0141	December	·0147	− 0·0136

It appears from this Table that the Values of Horizontal Force, obtained from the Scale Reading of Small Horizontal Force Magnetometer, were uncertain within about 0·03 English unit.

The Annual Mean was about 0·0165 greater than the Mean of the preceding year.

The following Table shows that no material change has occurred in the moment of the Large Horizontal Force Magnet, as the time of Vibration in one month was nearly equal to the time of Vibration in the other.

TABLE VI.—*Showing the Time of Vibration of Large Horizontal Force Magnetometer during the Year* 1857.

Months and Dates.	Time of one Vibration in Horizontal Plane.	Excess above the Mean of the Year.	Months and Dates.	Time of one Vibration in Horizontal Plane.	Excess above the Mean of the Year.
January..... 24	16·13	− 0·02	July 31	16·13	− 0·02
February 20	16·15	+ 0·00	August 28	16·20	+ 0·05
March 28	16·14	− 0·01	September..... 30	16·17	+ 0·02
April..... 28	16·14	− 0·01	October..... 30	16·22	+ 0·07
May 29	16·13	− 0·02	November..... 30	16·15	+ 0·00
June 30	16·13	− 0·02	December..... 30	16·16	+ 0·01

Mean Time of Vibration was about 0·03 second greater than the Mean Time of the last year.

VERTICAL FORCE MAGNETOMETER.

In the centre of a marble slab, 18 inches long by 11 inches broad, is fixed a copper frame-work, surmounted by two agate planes, upon which the knife-edge axle of the Bar Magnet rests. The dimensions of the Magnet Bar are as follows:—

Length.....	15·00 inches.
Breadth	1·25 „
Thickness	0·25 „

Temperature Correction:—The Temperature effect is assumed to be 0·03 in Scale Divisions for one degree of Fahr.; this value was used during the year 1857 without any alteration.

Centre of Gravity:—The best position for keeping the handle of Y supports is between 30° and 50° south, as in that position it seems to produce no changeable effect either on the Scale Readings or on the times of Vibration.

Time of Vibration:—The time of Vibration in the Horizontal Plane is assumed to be 13·00 seconds; the time of Vibration in the Vertical Plane has been carefully observed in each month of the year 1857.

TABLE VII.—*Showing the Times of Vibration of Vertical Force Magnetometer during the Year* 1857.

Months and Dates.	Time of one Vibration in Vertical Plane.	Months and Dates.	Time of one Vibration in Vertical Plane.	Months and Dates.	Time of one Vibration in Vertical Plane.
January.... 24	10·70*s*.	May 29	10·38*s*.	September.. 30	10·59*s*.
February .. 20	10·69	June 30	10·50	October.... 30	11·08
March 28	10·18	July 31	10·45	November.. 30	9·20
April..... 28	10·18	August 28	10·38	December .. 30	11·25

It was thought necessary to adjust the Instrument about the close of the year, as the time of Vibration in the Vertical Plane was much lower than its Normal Value.

Occasional Adjustments.

2nd November.—The box of the Vertical Force Magnet removed, the needle rubbed over with salad oil and cleaned of corrosion.

19·29 Scale Reading after adjustment.	18·58 Scale Reading before adjustment.
84·1 Thermometer do.	83·5 Thermometer do.

22nd December.—The position of the axle supports slightly altered; this increased the Reading of Scale by about 5 divisions.

30th December.—The Magnet carefully cleaned of corrosion, the axle placed over the agate supports, and the side screws slightly touched so as to obtain the time of Vibration in Vertical Plane about 11·00 seconds.

23·60 Sc. Reading before adjustment.	22·55 Sc. Reading after adjustment.
81·0 Thermometer do.	80·5 Thermometer do.
9·20 time of one Vibration do.	11·25 time of one Vibration do.

THE INCLINATION.

The Dip Circle, which has now been in use for four years, was observed bi-weekly throughout the year 1857. It is made by Barrow, of London, and is similar in construction to Gambey's Circle.

The construction of the instrument, and the method of registering the Observations, are given in the Introduction to the Volume for 1852, under the head "Inclination."

TABLE VIII.—*Showing the Mean Monthly Values of Observed Dip, by Henry Barrow's Dipping Circle, during the Year* 1857.

Months.	Mean Observed Dip.	Number of Observations.	Months.	Mean Observed Dip.	Number of Observations.
January	18°58·2	9	July	19°13·2	9
February	18·56·8	8	August	19·10·9	7
March	18·58·8	9	September	19·03·1	9
April	18·58·7	6	October	19·07·1	9
May	18·56·4	9	November	19·09·6	8
June	19·04·8	9	December	19·10·4	7

Mean Annual Dip ..... 19°04′0

The Inclination given in the Hourly Observations was deduced from the Mean Absolute Values of Horizontal and Vertical Intensities, as obtained from the Hourly Scale Readings of Large Horizontal Force and Vertical Force Magnetometers, which are, of course, affected with instrumental errors. In the Hourly Observations the Deduced Dip was calculated by the formula—

$$\tan \theta = \frac{Y}{X}$$

TOTAL INTENSITY.

This was obtained by means of the Horizontal Intensity, calculated from the Scale Readings of the Large Horizontal Force Magnetometer, and the Dip deduced from the Vertical and Horizontal Intensities, by the formula—

$$R = X \sec. \theta$$

BOMBAY MAGNETICAL OBSERVATORY.

MAGNETICAL OBSERVATIONS.

1857.

DAILY OBSERVATIONS FROM 1ST TO 4TH JANUARY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Jan. 1st—Noon.	20°316	19·47	76°8	29.53	76°4	8·0173	2·7657	19°02′4	L.	4 12 p. m.
1	19.836	19.41	76.5	29.43	76.5	.0162	.7646	19.02.0	C	5 12 ,,
2	19·630	19·39	76.4	29.49	76.4	.0159	·7652	19.02.2	C	6 12 ,,
3	19.767	19.28	76·4	29.42	76.4	.0130	.7645	19.02.4	C	7 12 ,,
4	19.973	19·18	76.0	29.55	76.3	.0124	·7659	19.03.0	C	8 12 ,,
5	19.836	19.18	75.7	29.50	76.1	.0124	·7654	19.02.8	N	9 12 ,,
6	20·042	19.15	75.8	29.54	76.1	.0120	.7658	19.03.0	N	10 12 ,,
7	20·042	19.07	75.5	29.58	76.0	.0107	·7662	19.02.9	N	11 12 ,,
8	20.042	19.12	75.5	29.58	76.0	.0116	·7662	19.03.0	N	Midnight.
9	19.973	19.02	75.0	29.53	76.0	.0099	·7657	19.03.3	L	1 12 a. m.
10	19.767	19.06	75.0	29.52	75.8	·0105	.7656	19.03.1	L	2 12 ,,
11	19.493	19.10	74.9	29.52	75.8	.0112	.7656	19.03.1	L	3 12 ,,
12	19.287	19·19	74.6	29.56	75.4	.0126	.7660	19.02.9	L	4 12 ,,
13	19.287	19.24	74.4	29.36	75.2	.0124	.7638	19.02.2	C	5 12 ,,
14	19.565	19.24	74·2	29.60	75.0	.0124	.7665	19.03.2	C	6 12 ,,
15	19·836	19.11	73.9	29.58	74.7	.0113	.7662	19.03.2	C	7 12 ,,
16	20.385	19.35	74.1	29.66	74.5	.0153	.7671	19.03.0	C	8 12 ,,
17	20·316	19.70	75.8	29.15	75.1	.0210	.7615	19.00.2	N	9 12 ,,
18	18.944	20.20	77.5	28.58	76.1	.0292	.7652	19.00.5	N	10 12 ,,
19	17.778	20.42	78.2	28.50	76.5	.0329	.7544	18.55.8	N	11 12 ,,
20	17·846	20.44	78·7	28.71	77.0	.0331	.7567	18.56.7	N	Noon.
21	18·052	20.29	78.7	28.86	77.2	.0306	.7583	18.57.6	L	1 12 p. m.
22	18.395	20.15	79.6	29.09	78.0	.0284	.7608	18.59.0	L	2 12 ,,
23	19.356	19.76	79.5	29.19	78.0	·0220	.7619	19.00.1	L	3 12 ,,
Jan. 2nd—Noon.	20.247	19·55	79.5	29.15	78.2	.0185	.7615	19.00.4	L.	4 12 ,,
1	20.042	19.37	78.9	29.02	78.4	.0157	.7591	18.59.8	C	5 12 ,,
2	20.179	19.33	78.3	28.90	78.2	.0149	.7588	18.59.8	C	6 12 ,,
3	20.179	19.22	78.0	29.00	78.0	.0122	.7599	19.00.6	C	7 12 ,,
4	20.385	19.18	77.9	29.02	78.0	.0124	.7601	19.00.7	C	8 12 ,,
5	19.699	19.17	77.5	29.05	77.8	.0124	.7604	19.00.8	N	9 12 ,,
6	19·767	19.11	77.3	29.09	77.8	·0113	.7608	19.01.2	N	10 12 ,,
7	19.699	19.17	77.1	29.13	77.8	.0124	.7613	19.01.2	N	11 12 ,,
8	19.630	19.28	77·4	29.11	77·7	.0130	.7611	19.01.0	N	Midnight.
9	19·493	19.34	77.6	29.08	77.6	.0151	.7607	19.00.6	L	1 12 a. m.
10	19.424	19.35	77.5	29.08	77·6	·0153	.7607	19.00.6	L	2 12 ,,
11	19·356	19.34	77·4	29.07	77.4	.0151	.7606	19.00.5	L	3 12 ,,
12	19.218	19.35	77.3	29.07	77.4	·0153	.7606	19.00.5	L	4 12 ,,
13	19.356	19.33	77.3	29.12	77.4	.0149	.7612	19.00.7	C	5 12 ,,
14	19·424	19.35	77.2	29.17	77.4	·0153	.7617	19.01.0	C	6 12 ,,
15	20.385	19.20	77.0	29.31	77.0	·0118	.7633	19.02.0	C	7 12 ,,
16	21.415	19.25	77.4	29.16	77.1	·0126	.7616	19.01.2.	C	8 12 ,,
17	20·865	19·38	77.9	28.83	77.5	.0157	.7580	18.59.4	N	9 12 ,,
18	19·836	19.63	78.6	28.44	77·9	·0198	·7537	18.57.3	N	10 12 ,,
19	17.641	19.75	79.5	28.05	78.2	.0218	.7494	18.55.2	N	11 12 ,,
20	16.955	19.82	80.3	28.27	79.0	·0230	.7518	18.56.1	N	Noon.
21	17.641	20.16	82.1	28.65	80.1	.0276	.7560	18.57.1	L	1 12 p. m.
22	18·375	19.96	82.0	28.63	80·4	.0253	.7558	18.57.4	L	2 12 ,,
23	19.767	19·72	81.2	28.73	80.2	.0214	.7569	18·58.3	L	3 12 ,,
Jan. 4th—Noon.	20·316	19.46	79.8	28.70	79.9	.0161	.7566	18.58.8	C	4 12 ,,
1	20.316	19.31	79.2	28.59	79·7	.0146	.7553	18·58.5	C	5 12 ,,
2	20.316	19.24	79.0	28.54	79.5	.0124	.7548	18.58.7	C	6 12 ,,
3	20.385	19.24	79.0	28.56	79.4	.0124	.7550	18.58.8	L	7 12 ,,
4	20.316	19.15	78.9	28.57	79.0	·0120	.7551	18.58.8	L	8 12 ,,
5	20.247	19.12	78.8	28.54	79.0	.0116	.7548	18.58.7	C	9 12 ,,
6	19.973	19.04	78.1	28.56	78·8	.0101	.7550	18.59.1	C	10 12 ,,
7	19.699	19.24	78.0	28.69	78.7	·0124	.7564	18.59.2	C	11 12 ,,
8	19.699	19.17	77·9	28.66	78.4	.0124	.7561	18.59.1	C	Midnight.
9	19·561	19.25	77.5	28.68	78.1	.0126	.7563	18.59.1	N	1 12 a. m.
10	19.630	19.19	77.2	28.67	77·9	.0126	.7562	18.59.0	N	2 12 ,,
11	19·013	19.13	76.8	28.68	77·6	·0116	.7563	18.59.2	N	3 12 ,,

On the 1st, at about 19h., Dip as obtained by Observation was 18°05′65.

DAILY OBSERVATIONS FROM 4TH TO 6TH JANUARY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
JAN. 4TH—12	19°081	19.13	76°4	28.72	77°2	8.0116	2.7566	18°59.3	N	4 12 a. m.
13	19.150	19.18	76.0	28.76	77.1	.0124	.7572	18.59.5	L	5 12 „
14	19.494	19.16	76.0	28.86	77.0	.0122	.7583	19·00.0	L	6 12 „
15	19.973	19.17	75.9	28.94	76.7	.0124	.7592	19.00.3	L	7 12 „
16	21.208	19.13	75.7	28.98	76.7	.0116	.7596	19.00.5	L	8 12 „
17	20.179	19.20	75.9	28.48	76.7	.0118	.7541	18.58.4	C	9 12 „
18	18.944	19.25	76.5	28.28	77.0	.0126	.7519	18.57.4	C	10 12 „
19	18.121	19.36	76.9	28.24	77.2	.0155	.7515	18.56.9	C	11 12 „
20	17.778	19.41	77.3	28.16	77.4	.0162	.7506	18.56.5	C	Noon.
21	17.229	19.51	77.8	28.14	78.0	.0178	.7504	18.56.2	N	1 12 p. m.
22	17.092	19.67	78.5	28.31	78.2	.0182	.7523	18.57.0	N	2 12 „
23	18.121	19.62	78.5	28.56	78.8	.0178	.7550	18.58.1	N	3 12 „
JAN. 5TH—Noon.	19.630	19.44	78.0	28.66	78.5	.0167	.7561	18.08.1	N	4 12 „
1	20.110	19.36	77.3	28.68	78.0	.0155	.7568	18.08.7	L	5 12 „
2	19.973	19.13	76.9	28.68	77.6	.0116	.7563	18.59.2	L	6 12 „
3	20.110	19.08	76.9	28.71	77.5	.0107	.7567	18.59.6	L	7 12 „
4	19.904	19.03	76.7	28.68	77.4	.0099	.7563	18.59.5	L	8 12 „
5	19.904	18.97	76.5	28.74	77.1	.0091	.7570	18.59.9	C	9 12 „
6	19.836	18.84	76.3	28.76	77.0	.0069	.7572	19.00.2	C	10 12 „
7	19.973	18.84	75.9	28.59	77.0	.0069	.7553	18.59.6	C	11 12 „
8	20.316	18.82	75.6	28.70	76.6	.0067	.7566	19.00.0	C	Midnight.
9	20.561	18.78	75.3	28.69	76.4	.0058	.7564	19.00.0	N	1 12 a. m.
10	20.110	19.09	74.9	28.68	76.0	.0109	.7563	18.59.4	N	2 12 „
11	19.836	19.07	74.6	28.78	75.9	.0107	.7574	18.59.8	N	3 12 „
12	19.904	18.88	74.3	28.72	75.5	.0075	.7568	18.59.9	N	4 12 „
13	19.218	18.92	74.2	28.76	75.7	.0083	.7572	19.00.1	L	5 12 „
14	19.356	18.93	73.9	28.87	74.9	.0083	.7584	19.00.5	L	6 12 „
15	19.904	18.87	73.4	29.00	74.1	.0075	.7599	19.01.6	L	7 12 „
16	21.276	19.05	73.5	29.12	74.6	.0103	.7612	19.01.4	L	8 12 „
17	21.482	19.36	74.5	28.86	74.7	.0155	.7583	18.59.5	C	9 12 „
18	20.247	19.75	76.2	28.35	75.6	.0218	.7527	18.56 6	C	10 12 „
19	18.738	19.76	77.4	28.01	76.5	.0220	.7490	18.55.1	C	11 12 „
20	17.984	19.71	77.9	29.80	77.3	.0211	.7467	18.54.4	C	Noon.
21	17.984	19.57	78.3	29.94	78.0	.0189	.7482	18.55.1	N	1 12 p. m.
22	18.258	19.52	78.8	28.24	78.1	.0181	.7515	18.56.7	N	2 12 „
23	18.875	19.48	79.0	28.36	78.7	.0163	.7528	18.57.4	N	3 12 „
JAN. 6TH—Noon.	19.973	19.40	78.5	28.46	78.8	.0161	.7539	18.57.8	N	4 12 „
1	20.247	19.35	77.9	28.36	78.0	.0153	.7528	18.57.5	L	5 12 „
2	20.042	19.17	76.9	28.35	77.4	.0124	.7527	18.57.9	L	6 12 „
3	20.110	19.10	76.6	28.41	77.0	.0112	.7534	18.58.3	L	7 12 „
4	20.179	19.00	76.0	28.45	76.7	.0095	.7538	18.58.6	L	8 12 „
5	20.316	18.99	75.6	28.43	76.3	.0093	.7536	18.58.6	C	9 12 „
6	20.042	18.98	75.0	28.64	76.0	.0091	.7559	18.59.5	C	10 12 „
7	20.213	19.07	74.6	28.58	75.6	.0107	.7552	18.59.0	C	11 12 „
8	19.630	18.98	74.0	28.79	75.2	.0091	.7575	19.00.1	C	Midnight.
9	19.767	18.96	73.5	28.88	74.7	.0089	.7585	19.00.5	N	1 12 a. m.
10	19.699	18.99	73.2	28.95	74.0	.0093	.7593	19.00.8	N	2 12 „
11	19.356	18.99	72.5	29.01	73.7	.0093	.7600	19.01.1	N	3 12 „
12	19.218	18.96	72.2	29.10	73.2	.0089	.7610	19.01.5	N	4 12 „
13	19.150	18.93	71.8	29.11	72.9	.0083	.7611	19.01.7	L	5 12 „
14	19.493	19.00	71.4	29.26	72.5	.0095	.7627	19.02.1	L	6 12 „
15	19.767	18.98	71.1	29.23	72.1	.0091	.7624	19.02.0	L	7 12 „
16	20.590	19.31	72.0	29.36	72.1	.0146	.7638	19.01.8	L	8 12 „
17	21.071	19.57	73.2	29.29	73.0	.0189	.7630	19.01.0	C	9 12 „
18	20.247	19.84	74.9	28.82	73.8	.0232	.7579	18.58.4	C	10 12 „
19	18.875	20.04	76.2	28.45	74.9	.0265	.7538	18.56.4	C	11 12 „
20	18.875	20.14	77.6	28.44	75.8	.0282	.7537	18.56.3	C	Noon.
21	19.493	19.96	78.0	28.49	76.2	.0253	.7543	18.56.8	N	1 12 p. m.
22	19.836	19.92	78.5	28.36	77.0	.0247	.7528	18.56.2	N	2 12 „
23	19.356	19.86	78.6	28.29	77.8	.0236	.7520	18.56.1	N	3 12 „

On the 5th, at about 19h., Dip as obtained by Observation was 18°52'8.

DAILY OBSERVATIONS FROM 7TH TO 9TH JANUARY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Jan. 7th—Noon.	19·767	19.86	78°3	28.49	77°8	8.0236	2.7542	18°56′9	N	4 12 p. m.
1	20.110	19.76	77.3	28.51	77.0	.0220	.7545	18.57.3	L	5 12 „
2	19.904	19.27	76.4	28.55	76.6	.0130	.7549	18.58.6	L	6 12 „
3	19.904	19.11	76.3	28.61	76.4	.0113	.7556	18.59.2	L	7 12 „
4	19.973	19.01	76·3	28.67	76.4	.0096	.7562	18.59.4	L	8 12 „
5	20.247	18.93	76.3	28.69	76.3	.0083	.7564	18.59.8	C	9 12 „
6	20.247	18.75	75.9	28.37	76.0	.0054	.7529	18.58.8	C	10 12 „
7	20.042	18.80	75.6	28.37	76.0	·0063	.7529	18.58.7	C	11 12 „
8	19.630	19.09	75.6	28.35	75.9	.0109	.7527	18.58.1	C	Midnight.
9	19.630	19.04	75.4	28.43	75.8	.0101	.7536	18.58.5	N	1 12 a. m.
10	19.356	19.09	75.1	28.46	75.6	.0109	.7539	18.58.5	N	2 12 „
11	19.013	19.09	74.8	28.50	75.3	.0109	.7544	18.58.7	N	3 12 „
12	18.944	19.18	74.8	28.56	75.2	.0124	.7550	18.58.8	N	4 12 „
13	18.670	19.33	74.8	28.50	75.0	.0149	.7544	18.58.1	L	5 12 „
14	18.944	19.35	74.6	28.60	75.0	.0134	.7555	18.58.9	L	6 12 „
15	18.875	19.51	74.6	28.59	74.8	.0178	.7553	18.58.2	L	7 12 „
16	19.836	19.59	75.4	28.73	75.0	.0181	.7569	18.58·7	L	8 12 „
17	21.415	19.69	76.6	28.74	75.7	.0208	.7570	18.58.4	C	9 12 „
18	21.551	19.75	78.0	28.30	76.3	.0218	.7522	18.56.3	C	10 12 „
19	20.456	19.58	79.3	27.96	77.1	.0189	.7484	18.55.2	C	11 12 „
20	20·456	19.47	80.2	27.79	78.0	.0173	.7465	18.54.8	C	Noon.
21	20.522	19.42	80.7	27.76	78.8	.0165	.7462	18.54.6	N	1 12 p. m.
22	19.836	19.40	81.0	27.70	79.2	.0161	.7456	18.54.6	N	2 12 „
23	19.561	19.20	81.1	27.83	79.8	.0118	.7470	18.55.6	N	3 12 „
Jan. 8th—Noon.	20.042	19.00	80.4	27.97	79.8	.0095	.7485	18.56.5	N	4 12 „
1	20.042	19.05	79.4	27.92	79.0	.0103	.7480	18.56.3	L	5 12 „
2	19.904	18.97	78.3	28.02	78.6	.0083	.7491	18.57.0	L	6 12 „
3	20.042	18.72	77.7	28.08	78.0	.0050	.7497	18.57·6	L	7 12 „
4	20.042	18.75	77.3	28.15	77.8	.0054	.7505	18.57.9	L	8 12 „
5	20.042	18.72	77.0	28.22	77.6	.0050	.7513	18.58.2	C	9 12 „
6	19.767	18.86	76.7	28.19	77.5	.0073	.7509	18.57.8	C	10 12 „
7	19.836	19.04	77.0	28.03	77.6	.0101	.7491	18.56.7	C	11 12 „
8	19.767	19.06	77.0	28.19	77.5	.0105	.7509	18.57.3	C	Midnight.
9	19·630	18.99	76.7	28.16	77·0	.0093	.7506	18.57.4	N	1 12 a. m.
10	19.630	18.96	76.0	28.15	76.8	·0089	.7505	18.57.4	N	2 12 „
11	19.493	19.12	75.9	28.25	76.5	.0116	.7516	18.57.4	N	3 12 „
12	19.493	19.08	75.8	28.27	76.3	.0107	.7518	18.57.7	N	4 12 „
13	19.356	19.02	75.1	28.23	76.0	.0099	.7514	18.57.6	L	5 12 „
14	19.218	19.35	75.4	28.33	76.0	.0153	.7525	18.57·4	L	6 12 „
15	19.218	19.31	75.6	28.40	76.0	.0149	.7533	18.57.7	L	7 12 „
16	19.973	19.36	76.0	28.46	76.0	.0155	.7539	18.57.8	L	8 12 „
17	20.247	19.69	77.2	28.39	76.0	.0208	.7531	18.56.9	C	9 12 „
18	20.042	20.06	78.9	28.15	77.2	.0269	.7505	18.55.1	C	10 12 „
19	19.424	20·17	80.1	27.97	78.3	.0288	.7485	18.54.0	C	11 12 „
20	19·218	20.09	80.7	27.90	78.9	.0273	.7478	18.54.0	C	Noon.
21	19.699	19.94	81.0	27.90	79.2	.0249	.7478	18.54.2	N	1 12 p. m.
22	20.316	19.86	81.0	27.87	79.8	.0236	.7474	18.54.2	N	2 12 „
23	19.973	19.75	81.0	27.80	80.0	.0218	.7467	18.54.2	N	3 12 „
Jan. 9th—Noon.	19.836	19.78	80.7	27.80	80.1	.0222	.7467	18.54.2	N	4 12 „
1	20.042	19.69	79.7	27.74	79.6	.0208	.7460	18.54.1	L	5 12 „
2	19·767	19.49	78.9	27.77	79.0	.0175	.7463	18.54.6	L	6 12 „
3	19.767	19.29	78.4	27.82	78.7	.0132	.7469	18.55.4	L	7 12 „
4	19.836	19.25	77.8	27.85	78.3	.0126	.7472	18.55.5	L	8 12 „
5	19.630	19.20	77.5	27.97	78.2	.0118	.7485	18.56.2	C	9 12 „
6	19.630	19.19	77.2	28.01	78.0	.0126	.7490	18.56.3	C	10 12 „
7	19.561	19.36	77.5	28.09	78.0	.0155	.7498	18.56.2	C	11 21 „
8	19.493	19.33	77.5	27.74	77.9	.0149	.7460	18.54.8	C	Midnight.
9	19.424	19·31	76.9	27.82	77.4	.0146	.7469	18.55.1	N	1 12 a. m.
10	19.356	19.33	76.8	27.89	77.1	.0149	.7476	18.55.4	N	2 12 „
11	19.218	19.20	76.3	27.81	77.0	.0118	.7468	18.55.5	N	3 12 „

On the 8th, at about 19h., Dip as obtained by Observation was 19°01′2.

DAILY OBSERVATIONS FROM 9TH TO 12TH JANUARY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
JAN. 9TH—12	18'875	19.30	76°0	27.86	76°8	8.0145	2.7473	18°55.3	N	4 12 a. m.
13	18.258	19.46	75.9	28.02	76.6	.0171	.7491	18.55.8	L	5 12 „
14	18.189	19.56	75.9	27.96	76.4	.0187	.7484	18.55.2	L	6 12 „
15	18.532	19.50	76.0	28.05	76.1	.0177	.7494	18.55.8	L	7 12 „
16	19.973	19.59	76.6	28.17	76.2	.0181	.7507	18.56.4	L	8 12 „
17	21.139	19.81	77.7	28.08	76.9	.0227	.7497	18.55.3	C	9 12 „
18	21.345	20.17	79.3	27.88	77.8	.0288	.7475	18.53.6	C	10 12 „
19	21.208	20.34	80.9	27.48	79.0	.0314	.7431	18.51.7	C	11 12 „
20	20.865	20.22	81.5	27.29	79.7	.0296	.7410	18.51.0	C	Noon.
21	20.385	20.02	82.0	27.24	80.0	.0263	.7405	18.51.3	N	1 12 p. m.
22	19.493	19.93	82.9	27.13	80.9	.0247	.7097	18.51.1	N	2 12 „
23	19.218	19.86	83.0	27.19	81.5	.0236	.7399	18.51.3	N	3 12 „
JAN. 11TH—Noon.	19.424	19.45	83.3	26.99	82.3	.0169	.7377	18.51.4	L	4 12 „
1	19.424	19.45	82.4	27.14	82.0	.0169	.7394	18.52.0	L	5 12 „
2	19.630	19.43	81.7	27.25	81.5	.0165	.7406	18.52.5	L	6 12 „
3	19.699	19.27	81.0	27.30	81.0	.0130	.7412	18.53.2	L	7 12 „
4	19.767	19.21	80.6	27.37	80.8	.0119	.7419	18.53.6	L	8 12 „
5	19.561	19.19	80.3	27.22	80.7	.0126	.7403	18.52.9	C	9 12 „
6	19.699	19.19	80.0	27.42	80.6	.0126	.7425	18.53.8	C	10 12 „
7	19.904	19.25	79.7	27.38	80.3	.0126	.7420	18.53.6	C	11 12 „
8	19.836	19.33	79.4	27.40	80.0	.0149	.7423	18.53.4	C	Midnight.
9	19.630	19.41	79.2	27.41	79.8	.0162	.7426	18.53.4	N	1 12 a. m.
10	19.493	19.40	78.9	27.43	79.5	.0161	.7426	18.53.4	N	2 12 „
11	19.287	19.44	78.6	27.42	79.2	.0167	.7426	18.53.3	N	3 12 „
12	18.944	19.58	78.3	27.37	79.0	.0189	.7419	18.52.6	N	4 12 „
13	18.601	19.58	78.0	27.41	78.9	.0189	.7424	18.52.9	L	5 12 „
14	18.395	19.63	77.9	27.46	78.5	.0198	.7429	18.53.0	L	6 12 „
15	18.601	19.52	77.6	27.44	78.0	.0181	.7427	18.53.3	L	7 12 „
16	19.287	19.64	77.7	27.57	78.0	.0200	.7441	18.53.5	L	8 12 „
17	20.179	19.73	78.8	27.65	78.6	.0214	.7450	18.53.8	C	9 12 „
18	20.590	20.04	79.9	27.45	79.0	.0265	.7428	18.52.1	C	10 12 „
19	20.385	20.09	80.9	27.22	79.7	.0273	.7403	18.51.1	C	11 12 „
20	20.110	19.89	81.7	27.06	80.3	.0240	.7385	18.50.8	C	Noon.
21	20.247	19.82	82.3	27.02	80.7	.0230	.7381	18.50.7	N	1 12 p. m.
22	20.247	19.64	82.7	26.91	81.0	.0200	.7369	18.50.6	N	2 12 „
23	19.287	19.52	83.2	26.83	81.7	.0181	.7360	18.50.6	N	3 12 „
JAN. 12TH—Noon.	19.493	19.47	83.0	26.96	82.0	.0173	.7374	18.51.2	N	4 12 „
1	19.630	19.58	82.2	27.00	81.6	.0189	.7379	18.51.1	L	5 12 „
2	19.836	19.43	81.3	27.11	81.0	.0165	.7391	18.51.9	L	6 12 „
3	19.973	19.34	80.8	26.90	80.9	.0151	.7373	18.51.3	L	7 12 „
4	20.110	19.14	80.1	26.96	80.4	.0118	.7374	18.51.8	L	8 12 „
5	20.110	19.05	79.8	27.26	80.2	.0103	.7407	18.53.5	C	9 12 „
6	20.110	18.90	79.5	27.44	79.9	.0079	.7427	18.54.4	C	10 12 „
7	20.179	18.90	79.0	27.34	79.6	.0079	.7416	18.54.1	C	11 12 „
8	20.316	19.09	78.7	27.25	79.4	.0109	.7406	18.53.3	C	Midnight.
9	20.042	19.52	78.5	27.32	79.1	.0181	.7414	18.52.7	N	1 12 a. m.
10	20.247	19.28	78.5	27.37	79.0	.0130	.7419	18.53.5	N	2 12 „
11	19.767	19.26	78.2	27.37	79.0	.0128	.7419	18.53.5	N	3 12 „
12	19.493	19.29	78.2	27.38	78.8	.0132	.7420	18.53.6	N	4 12 „
13	19.081	19.40	77.9	27.39	78.4	.0161	.7421	18.53.2	L	5 12 „
14	19.013	19.41	77.3	27.48	78.0	.0162	.7431	18.53.6	L	6 12 „
15	18.189	19.52	77.0	27.47	77.4	.0181	.7430	18.53.4	L	7 12 „
16	19.218	19.65	77.9	27.55	77.7	.0202	.7439	18.53.4	L	8 12 „
17	19.630	19.90	78.7	27.51	78.2	.0243	.7435	18.52.8	C	9 12 „
18	19.493	20.25	80.1	27.25	79.0	.0300	.7406	18.50.8	C	10 12 „
19	19.287	20.38	81.4	27.07	79.8	.0320	.7386	18.49.7	C	11 12 „
20	19.699	20.37	82.5	26.96	80.9	.0320	.7374	18.49.2	C	Noon.
21	19.973	20.00	81.5	27.02	80.8	.0295	.7381	18.50.1	N	1 12 p. m.
22	20.590	19.86	81.4	27.09	80.8	.0236	.7388	18.50.9	N	2 12 „
23	19.973	19.62	81.4	27.03	81.0	.0198	.7382	18.51.1	N	3 12 „

On the 9th, at about 19h., Deflection Observations were taken.
On the 12th, at about 19h., Dip as obtained by Observation was 18°59'4.

DAILY OBSERVATIONS FROM 13TH TO 15TH JANUARY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
JAN. 13TH—Noon.	20°042	19.35	81°0	27.13	81°0	8.0153	2.7393	18°52.2	N	4 12 p. m.
1	20.179	19.13	79.8	27.18	80.0	.0116	.7398	18.52.8	L	5 12 „
2	20.316	18.89	78.9	27.23	79.4	.0077	.7404	18.53.6	L	6 12 „
3	19.767	19.01	78.5	27.25	79.0	.0096	.7406	18.53.4	L	7 12 „
4	19.904	18.97	78.0	27.32	78.9	.0091	.7414	18.53.8	L	8 12 „
5	19.904	19.03	77.8	27.59	78.7	.0099	.7443	18.54.9	C	9 12 „
6	20.110	18.97	77.5	27.39	78.3	.0091	.7421	18.54.1	C	10 12 „
7	20.179	18.91	76.9	27.41	78.0	.0081	.7424	18.54.4	C	11 12 „
8	19.767	19.08	76.9	27.44	77.9	.0107	.7427	18.54.2	C	Midnight.
9	19.767	19.12	76.8	27.39	77.6	.0116	.7421	18.53.1	N	12 a. m.
10	19.836	18.96	76.3	27.45	77.1	.0089	.7428	18.54.4	N	2 12 „
11	19.424	18.93	75.9	27.46	76.9	.0083	.7429	18.54.6	N	3 12 „
12	19.218	19.01	75.3	27.50	76.5	.0106	.7434	18.54.4	N	4 12 „
13	18.807	19.08	75.1	27.56	76.1	.0107	.7440	18.54.7	L	5 12 „
14	18.601	19.06	74.8	27.63	76.0	.0105	.7448	18.55.0	L	6 12 „
15	18.738	19.18	74.6	27.73	75.5	.0124	.7461	18.55.2	L	7 12 „
16	19.424	19.30	74.4	27.92	75.0	.0145	.7480	18.55.6	L	8 12 „
17	21.173	19.70	75.2	27.95	75.5	.0210	.7483	18.55.0	C	9 12 „
18	20.659	20.05	76.5	27.38	76.0	.0267	.7420	18.51.8	C	10 12 „
19	18.532	20.14	77.9	27.14	76.8	.0288	.7394	18.50.4	C	11 12 „
20	17.984	20.15	79.0	27.37	77.8	.0284	.7419	18.51.6	C	Noon.
21	18.601	20.11	79.6	27.40	78.1	.0277	.7423	18.51.8	N	1 12 p. m.
22	19.356	20.00	79.8	27.41	78.7	.0267	.7424	18.51.9	N	2 12 „
23	20.110	19.74	79.6	27.37	79.0	.0216	.7419	18.52.3	N	3 12 „
JAN. 14TH—Noon.	20.179	19.50	78.6	27.40	78.8	.0177	.7423	18.53.1	N	4 12 „
1	20.522	19.39	77.8	27.38	78.0	.0159	.7420	18.53.2	L	5 12 „
2	20.042	19.16	77.0	27.43	77.7	.0122	.7426	18.53.9	L	6 12 „
3	19.699	19.17	77.0	27.49	77.5	.0124	.7432	18.54.1	L	7 12 „
4	19.973	19.13	76.7	27.57	77.4	.0116	.7441	18.54.5	L	8 12 „
5	19.973	19.06	76.5	27.57	77.2	.0105	.7441	18.54.7	C	9 12 „
6	20.110	19.18	76.0	27.60	76.9	.0124	.7445	18.54.7	C	10 12 „
7	20.247	19.03	75.6	27.60	76.5	.0099	.7445	18.55.0	C	11 12 „
8	20.213	19.18	75.4	27.63	76.3	.0124	.7448	18.54.8	C	Midnight.
9	19.870	19.02	75.0	27.64	76.0	.0099	.7449	18.55.1	N	1 12 a. m.
10	19.767	19.16	74.6	27.63	75.7	.0122	.7448	18.54.8	N	2 12 „
11	19.630	19.15	74.2	27.68	75.2	.0120	.7453	18.55.0	N	3 12 „
12	19.561	19.23	73.8	27.71	75.0	.0122	.7457	18.55.2	N	4 12 „
13	19.356	19.15	73.1	27.73	74.8	.0120	.7459	18.55.2	L	5 12 „
14	18.670	19.37	73.5	27.84	74.5	.0147	.7471	18.55.2	L	6 12 „
15	18.909	19.31	73.3	27.92	74.0	.0146	.7480	18.55.6	L	7 12 „
16	18.532	19.36	74.0	27.03	74.2	.0145	.7492	18.56.0	L	8 12 „
17	19.699	19.61	75.0	27.16	74.8	.0195	.7506	18.56.0	C	9 12 „
18	19.767	19.91	76.4	27.86	75.3	.0244	.7473	18.54.2	C	10 12 „
19	19.150	20.11	77.8	27.61	76.1	.0277	.7446	18.52.7	C	11 12 „
20	19.218	20.26	79.1	27.61	77.0	.0303	.7446	18.52.4	C	Noon.
21	19.356	20.13	80.0	27.64	78.0	.0280	.7449	18.52.8	N	1 12 p. m.
22	19.836	20.02	80.6	27.54	78.5	.0263	.7438	18.52.6	N	2 12 „
23	19.767	19.77	80.8	27.37	79.1	.0222	.7419	18.52.3	N	3 12 „
JAN. 15TH—Noon.	19.836	19.61	80.4	27.38	79.2	.0195	.7420	18.52.7	N	4 12 „
1	20.042	19.63	79.8	27.27	79.0	.0198	.7408	18.52.2	L	5 12 „
2	19.904	19.48	79.2	27.29	78.9	.0173	.7411	18.52.7	L	6 12 „
3	19.836	19.40	78.9	27.32	78.6	.0161	.7414	18.52.9	L	7 12 „
4	19.630	19.38	78.4	27.35	78.2	.0157	.7417	18.53.1	L	8 12 „
5	19.767	19.36	77.7	27.42	78.0	.0155	.7425	18.53.4	C	9 12 „
6	19.973	19.24	77.2	27.38	77.6	.0124	.7420	18.53.7	C	10 12 „
7	19.904	19.26	76.8	27.37	77.4	.0128	.7419	18.53.5	C	11 12 „
8	20.042	19.47	76.6	27.39	77.2	.0173	.7421	18.53.1	C	Midnight.
9	20.199	19.32	76.3	27.58	76.8	.0149	.7442	18.54.1	N	1 12 a. m.
10	19.699	19.43	76.4	27.58	76.8	.0165	.7442	18.53.9	N	2 12 „
11	19.630	19.33	76.2	27.65	76.7	.0149	.7450	18.54.5	N	3 12 „

On the 15th, at about 19h., Dip as obtained by Observation was 18°52'8.

DAILY OBSERVATIONS FROM 15TH TO 18TH JANUARY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
JAN. 15TH—12	19'150	19.30	76°4	27.50	76°7	8.0145	2.7434	18°53'8	N	4 12 a. m.
13	19.013	19.40	76.2	27.55	76.6	.0167	.7439	18.53.8	L	5 12 „
14	18.738	19.51	76.1	27.58	76.5	.0178	.7442	18.53.8	L	6 12 „
15	18.738	19.52	76.0	27.62	76.0	.0181	.7447	18.58.1	L	7 12 „
16	19.699	19.73	76.4	27.78	76.1	.0214	.7464	18.58.2	L	8 12 „
17	20.522	20.06	77.6	27.70	76.7	.0269	.7456	18.53.2	C	9 12 „
18	20.042	20.42	79.0	27.25	77.6	.0329	.7406	18.50.4	C	10 12 „
19	19.424	20.42	80.5	27.01	78.7	.0329	.7380	18.49.4	C	11 12 „
20	19.904	20.04	81.6	26.96	79.5	.0265	.7374	18.49.9	C	Noon.
21	19.630	20.13	82.0	26.86	80.2	.0280	.7363	18.49.4	N	1 12 p. m.
22	19.699	20.06	82.8	26.81	81.0	.0269	.7362	18.49.4	N	2 12 „
23	19.699	19.93	83.0	26.84	81.4	.0247	.7361	18.49.6	N	3 12 „
JAN. 16TH—Noon.	19.767	19.69	82.3	26.85	81.8	.0208	.7362	18.50.2	N	4 12 „
1	20.110	19.49	81.3	26.87	81.0	.0175	.7364	18.50.7	L	5 12 „
2	20.179	19.27	80.3	26.87	80.6	.0130	.7364	18.51.3	L	6 12 „
3	19.836	19.07	79.9	27.05	80.0	.0107	.7384	18.52.4	L	7 12 „
4	19.699	19.15	79.0	27.10	79.4	.0120	.7390	18.52.5	L	8 12 „
5	19.836	19.19	78.0	27.10	79.0	.0126	.7390	18.52.5	C	9 12 „
6	20.042	19.17	77.6	27.16	78.9	.0124	.7396	18.52.7	C	10 12 „
7	19.561	19.03	77.5	27.14	78.5	.0099	.7394	18.52.9	C	11 12 „
8	20.042	19.03	77.3	27.18	78.1	.0099	.7398	18.53.1	C	Midnight.
9	21.002	19.09	77.0	27.33	77.8	.0109	.7415	18.53.7	N	1 12 a. m.
10	20.316	19.03	76.7	27.33	77.6	.0099	.7415	18.53.8	N	2 12 „
11	20.728	18.90	76.3	27.36	77.0	.0079	.7418	18.54.0	N	3 12 „
12	19.767	18.58	75.9	27.26	76.8	.0025	.7407	18.54.4	N	4 12 „
13	18.327	18.64	75.9	27.24	76.8	.0036	.7405	18.54.2	L	5 12 „
14	18.875	18.81	75.6	27.61	76.4	.0064	.7446	18.55.5	L	6 12 „
15	18.258	18.68	75.7	27.56	76.0	.0042	.7440	18.55.6	L	7 12 „
16	19.218	18.78	76.4	27.85	76.2	.0018	.7472	18.56.4	L	8 12 „
17	20.247	19.23	77.5	27.81	76.7	.0124	.7468	18.55.5	C	9 12 „
18	21.758	19.49	79.0	27.53	77.6	.0165	.7437	18.53.8	C	10 12 „
19	21.071	19.64	80.0	27.22	78.3	.0200	.7403	18.52.0	C	11 12 „
20	20.316	19.43	80.9	26.90	79.2	.0165	.7368	18.51.0	C	Noon.
21	19.699	19.62	81.9	26.84	80.2	.0198	.7361	18.50.3	N	1 12 p. m.
22	20.042	19.50	82.6	26.79	81.0	.0177	.7355	18.49.2	N	2 12 „
23	20.042	19.45	82.9	27.05	81.6	.0169	.7439	18.53.8	N	3 12 „
JAN. 18TH—Noon.	20.316	19.24	81.9	27·10	81.5	.0124	.7390	18.52.5	C	4 12 „
1	20.590	18.73	80.5	27.11	80.9	.0050	.7391	18.53.4	C	5 12 „
2	20.453	18.80	79.3	27.08	80.0	.0063	.7387	18.53.2	C	6 12 „
3	20.728	18.74	78.7	27.19	79.1	.0052	.7399	18.53.7	L	7 12 „
4	20.316	18.71	78.3	27.21	79.0	.0047	.7402	18.53.8	L	8 12 „
5	20.247	18.71	77.3	27.41	78.8	.0049	.7424	18.54.7	C	9 12 „
6	20.316	18.61	77.2	27.56	78.5	.0031	.7440	18.55.7	C	10 12 „
7	20.556	18.68	76.8	27.49	78.1	.0042	.7432	18.55.2	C	11 12 „
8	20.316	18.81	76.7	27.38	77.7	.0064	.7420	18.54.5	C	Midnight.
9	19.699	18.94	76.4	27.55	77.6	.0085	.7439	18.54.8	N	1 12 a. m.
10	19.904	19.01	76.1	27.61	77.1	.0096	.7446	18.55.0	N	2 12 „
11	19.699	18.99	75.8	27.59	76.9	.0093	.7443	18.55.0	N	3 12 „
12	19.561	18.89	75.3	27.72	76.6	.0077	.7458	18.55.8	N	4 12 „
13	19.150	18.95	75.2	27.63	76.5	.0087	.7448	18.55.2	L	5 12 „
14	18.738	19.24	75.6	27.72	76.5	.0124	.7458	18.55.2	L	6 12 „
15	18.670	19.32	75.9	27.69	76.3	.0149	.7454	18.54.6	L	7 12 „
16	18.944	19.40	76.4	27.74	76.3	.0161	.7460	18.54.7	L	8 12 „
17	19.630	19.67	77·6	27.71	77.0	.0208	.7457	18.54.1	C	9 12 „
18	20.316	19.81	79.0	27.62	77.6	.0227	.7447	18.53.4	C	10 12 „
19	20.247	20.14	80.9	26.24	79.0	.0232	.7405	18.51.1	C	11 12 „
20	19.287	20.08	82.0	26.75	80.0	.0271	.7351	18.49.1	C	Noon.
21	19.218	19.97	82.2	26.91	80.2	.0255	.7369	18.49.8	N	1 12 p. m.
22	19.356	19.84	82.2	26.92	80.8	.0232	.7370	18.50.3	N	2 12 „
23	19.150	19.76	82.5	27.02	81.2	.0220	.7381	18.50.8	N	3 12 „

On the 16th, at about 20h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 19TH TO 21ST JANUARY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
JAN. 19TH-Noon.	19·699	19.54	82°2	27.16	81°4	3.0183	2.7396	18°52.0	N	4 12 p. m.
1	20.042	19.27	81.0	27.15	81.0	.0130	.7395	18.52.6	L	5 12 „
2	20.042	19.07	80.0	27.20	80.5	.0107	.7401	18.53.1	L	6 12 „
3	20.522	19.05	79.5	27.26	79.9	.0103	.7407	18.53.5	L	7 12 „
4	20.728	18.96	79.0	27.31	79.6	.0089	.7413	18.53.8	L	8 12 „
5	20.865	18.72	78.4	27.18	79.4	.0050	.7398	18.53.7	C	9 12 „
6	20.453	18.79	78.0	27.31	79.0	.0059	.7413	18.54.2	C	10 12 „
7	20.042	18.82	77.9	27.36	78.9	.0067	.7418	18.54.3	C	11 12 „
8	20.042	18.91	77.8	27.51	78.5	.0080	.7435	18.5.49	C	Midnight.
9	19.973	18.92	77.3	27.54	78.0	.0083	.7438	18.55.0	N	1 12 a. m.
10	19.904	18.90	77.4	27.64	78.0	.0079	.7449	18.55.4	N	2 12 „
11	19.630	19.03	77.2	27.59	77.8	.0099	.7443	18.54.9	N	3 12 „
12	19.287	19.06	77.1	27.63	77.7	.0105	.7448	18.55.0	N	4 12 „
13	19.218	19.07	77.1	27.67	77.5	.0107	.7452	18.55.1	L	5 12 „
14	19.150	19.14	77.0	27.67	77.5	.0118	.7452	18.54.9	L	6 12 „
15	19.493	19.18	77.0	27.70	77.3	.0124	.7456	18.55.1	L	7 12 „
16	19.904	19.26	77.1	27.77	77.2	.0128	.7463	18.55.1	L	8 12 „
17	20.659	19.39	77.6	27.80	77.3	.0159	.7467	18.55.0	C	9 12 „
18	21.071	19.65	79.0	27.62	78.1	.0202	.7447	18.53.8	C	10 12 „
19	20.316	19.73	80.4	27.28	79.2	.0214	.7409	18.52.1	C	11 12 „
20	20.042	19.91	82.0	27.12	80.3	.0244	.7391	18.51.0	C	Noon.
21	19.836	19.91	83.3	26.80	81.2	.0244	.7357	18.49.8	N	1 12 p. m.
22	19.699	19.80	84.0	26.94	82.0	.0226	.7372	18.50.3	N	2 12 „
23	19.567	19.80	84.4	26.88	82.7	.0226	.7365	18.50.1	N	3 12 „
JAN. 20TH-Noon.	19.630	19.73	83.9	26.89	83.0	.0214	.7366	18.50.4	N	4 12 „
1	19.904	19.61	83.0	26.95	82.4	.0195	.7373	18.50.8	L	5 12 „
2	20.110	19.60	82.3	26.96	82.1	.0194	.7374	18.50.9	L	6 12 „
3	20.247	19.38	81.7	27.17	81.6	.0157	.7399	18.52.3	L	7 12 „
4	20.316	19.24	80.9	27.23	81.0	.0126	.7403	18.52.9	L	8 12 „
5	20.316	19.13	80.0	27.25	81.0	.0116	.7406	18.53.1	C	9 12 „
6	19.904	19.12	80.2	27.27	80.8	.0116	.7408	18.53.2	C	10 12 „
7	19.904	19.11	79.9	27.32	80.5	.0113	.7414	18.53.6	C	11 12 „
8	20.042	19.08	79.5	27.36	80.3	.0107	.7418	18.53.8	C	Midnight.
9	19.699	19.17	79.5	27.40	80.0	.0124	.7423	18.53.8	N	1 12 a. m.
10	19.767	19.10	79.3	27.30	79.9	.0112	.7412	18.53.5	N	2 12 „
11	19.630	19.20	79.0	27.37	79.8	.0118	.7419	18.53.6	N	3 12 „
12	19.561	19.15	78.6	27.39	79.5	.0120	.7421	18.53.7	N	4 12 „
13	19.150	19.15	78.3	27.37	79.1	.0120	.7419	18.53.6	L	5 12 „
14	18.807	19.25	78.3	27.41	78.9	.0126	.7424	18.53.7	L	6 12 „
15	18.875	19.33	78.5	27.45	78.9	.0151	.7428	18.53.6	L	7 12 „
16	19.561	19.49	78.8	27.62	79.0	.0175	.7447	18.54.1	L	8 12 „
17	20.590	19.70	79.6	27.60	79.2	.0210	.7445	18.53.6	C	9 12 „
18	20.385	19.82	80.9	27.35	79.9	.0230	.7417	18.52.2	C	10 12 „
19	19.767	19.98	82.3	27.13	81.0	.0255	.7393	18.50.8	C	11 12 „
20	20.110	20.08	83.4	26.99	82.0	.0271	.7377	18.50.1	C	Noon.
21	20.144	20.06	84.6	26.85	82.9	.0269	.7362	18.49.4	N	1 12 p. m.
22	19.493	19.97	85.2	26.82	83.9	.0255	.7359	18.49.5	N	2 12 „
23	19.630	20.00	86.0	26.85	84.2	.0269	.7362	18.49.4	N	3 12 „
JAN. 21ST-Noon.	19.767	19.77	85.6	26.88	84.2	.0222	.7365	18.50.2	N	4 12 „
1	19.973	19.47	84.5	26.87	83.9	.0173	.7364	18.50.8	L	5 12 „
2	20.042	19.41	83.5	26.85	83.6	.0162	.7362	18.50.8	L	6 12 „
3	19.973	19.36	83.0	26.91	83.1	.0155	.7369	18.51.1	L	7 12 „
4	20.042	19.22	82.4	26.92	82.6	.0122	.7370	18.51.7	L	8 12 „
5	19.836	19.20	82.0	27.01	82.1	.0118	.7380	18.52.1	C	9 12 „
6	19.973	19.21	81.4	26.96	82.0	.0119	.7374	18.51.8	C	10 12 „
7	19.904	19.26	81.0	27.01	81.7	.0128	.7380	18.52.0	C	11 12 „
8	19.767	19.27	80.9	27.10	81.4	.0130	.7390	18.52.4	C	Midnight.
9	19.561	19.29	80.2	27.13	81.0	.0132	.7393	18.52.5	N	1 12 a. m.
10	19.699	19.24	79.6	27.15	80.4	.0124	.7395	18.52.7	N	2 12 „
11	19.493	19.30	79.8	27.21	80.4	.0145	.7402	18.52.5	N	3 12 „

On the 19th, at about 19h., Dip as obtained by Observation was 18°56′2.

DAILY OBSERVATIONS FROM 21ST TO 23RD JANUARY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
JAN. 21ST—12	19'630	19.31	79°4	27.29	80°0	8.0146	2.7410	18°52'9	N	4 12 a. m.
13	19.218	19.36	79.0	27.23	79.7	.0155	.7404	18.52.5	L	5 12 „
14	18.875	19.44	78.2	27.22	79.1	.0167	.7403	18.52.4	L	6 12 „
15	19.081	19.41	78.3	27.41	78.8	.0162	.7424	18.53.3	L	7 12 „
16	19.424	19.58	79.1	27.48	79.0	.0189	.7431	18.53.2	L	8 12 „
17	20.385	19.70	79.9	27.63	79.4	.0210	.7448	18.53.7	C	9 12 „
18	20.728	19.95	84.1	27.52	80.1	.0251	.7436	18.52.6	C	10 12 „
19	20.933	20.04	82.9	27.19	81.1	.0265	.7399	18.50.9	C	11 12 „
20	20.522	20.12	83.9	26.98	83.6	.0280	.7376	18.49.9	C	Noon.
21	20.385	20.16	84.7	26.82	83.3	.0286	.7359	18.49.1	N	1 12 p. m.
22	19.904	20.05	84.8	26.71	83.8	.0267	.7347	18.49.0	N	2 12 „
23	19.561	19.97	84.8	26.79	84.2	.0255	.7355	18.49.4	N	3 12 „
JAN. 22ND—Noon.	19.699	19.82	84.3	26.83	84.1	.0230	.7360	18.49.9	N	4 12 „
1	19.699	19.72	83.6	26.77	83.7	.0214	.7353	18.50.0	L	5 12 „
2	19.973	19.57	82.9	26.85	83.2	.0189	.7362	18.50.4	L	6 12 „
3	19.904	19.50	82.5	26.88	82.6	.0177	.7365	18.50.8	L	7 12 „
4	19.904	19.37	82.0	27.02	82.3	.0157	.7381	18.51.6	L	8 12 „
5	19.836	19.31	81.8	26.98	82.0	.0146	.7376	18.51.5	C	9 12 „
6	19.767	19.31	81.4	26.93	81.8	.0146	.7371	18.51.3	C	10 12 „
7	19.630	19.31	81.0	26.85	81.3	.0146	.7362	18.50.9	C	11 12 „
8	19.561	19.38	80.5	27.08	81.1	.0157	.7387	18.51.9	C	Midnight.
9	19.356	19.37	80.2	27.10	80.5	.0157	.7390	18.52.0	N	1 12 a. m.
10	19.356	19.33	79.6	27.01	80.3	.0149	.7380	18.51.7	N	2 12 „
11	19.218	19.23	78.9	27.11	79.8	.0122	.7391	18.52.5	N	3 12 „
12	18.944	19.12	78.1	27.24	79.2	.0116	.7405	18.53.1	N	4 12 „
13	18.601	19.21	77.9	27.28	79.0	.0119	.7409	18.53.2	L	5 12 „
14	18.738	19.18	76.9	27.27	78.4	.0124	.7408	18.53.2	L	6 12 „
15	19.356	19.26	76.6	27.36	77.8	.0128	.7418	18.53.5	L	7 12 „
16	19.424	19.45	77.6	27.54	78.0	.0169	.7438	18.53.8	L	8 12 „
17	20.179	19.74	78.8	27.58	78.5	.0216	.7442	18.53.2	C	9 12 „
18	20.728	20.01	80.5	27.39	79.5	.0260	.7421	18.51.9	C	10 12 „
19	20.796	20.30	82.0	27.18	80.4	.0308	.7398	18.50.4	C	11 12 „
20	20.453	20.10	82.1	27.18	81.0	.0276	.7398	18.50.8	C	Noon.
21	20.110	19.89	82.6	26.81	81.6	.0240	.7358	18.49.8	N	1 12 p. m.
22	18.670	19.85	82.8	26.76	82.0	.0234	.7352	18.49.6	N	2 12 „
23	18.601	19.78	82.6	26.85	82.6	.0222	.7362	18.50.0	N	3 12 „
JAN. 23RD—Noon.	19.287	19.61	82.0	27.07	82.2	.0195	.7386	18.51.3	N	4 12 „
1	19.767	19.55	81.1	27.07	81.7	.0185	.7386	18.51.4	L	5 12 „
2	20.385	19.21	80.2	27.11	81.0	.0119	.7391	18.52.5	L	6 12 „
3	20.522	19.17	79.7	27.22	80.5	.0124	.7403	18.53.0	L	7 12 „
4	20.590	19.13	79.3	27.24	80.0	.0116	.7405	18.53.1	L	8 12 „
5	19.904	19.08	79.0	27.41	79.9	.0107	.7424	18.54.0	C	9 12 „
6	20.110	19.13	79.0	27.36	79.7	.0116	.7418	18.53.6	C	10 12 „
7	20.796	19.40	78.0	27.35	79.3	.0161	.7417	18.53.1	C	11 12 „
8	20.042	19.22	77.8	27.35	79.0	.0122	.7417	18.53.6	C	Midnight.
9	19.767	19.25	77.6	27.38	78.5	.0126	.7420	18.53.6	N	1 12 a. m.
10	19.561	19.28	77.6	27.40	78.2	.0130	.7423	18.53.7	N	2 12 „
11	19.356	19.26	77.4	27.44	78.0	.0128	.7427	18.53.9	N	3 12 „
12	19.081	19.10	76.4	27.49	77.5	.0112	.7432	18.54.3	N	4 12 „
13	19.150	19.03	76.3	27.57	77.2	.0108	.7441	18.54.7	L	5 12 „
14	19.218	18.97	75.2	27.67	76.6	.0091	.7452	18.55.3	L	6 12 „
15	19.081	19.08	75.1	27.80	76.0	.0107	.7467	18.55.7	L	7 12 „
16	19.561	19.30	76.2	27.96	76.2	.0145	.7484	18.55.7	L	8 12 „
17	21.002	19.52	77.6	28.02	76.8	.0181	.7491	18.55.7	C	9 12 „
18	22.032	19.70	79.0	27.85	77.5	.0210	.7472	18.54.5	C	10 12 „
19	21.276	19.81	80.3	27.53	77.8	.0227	.7437	18.53.0	C	11 12 „
20	20.247	19.80	81.4	27.29	79.6	.0226	.7410	18.51.9	C	Noon.
21	20.110	19.71	82.0	27.21	80.3	.0211	.7402	18.51.8	N	1 12 p. m.
22	19.973	19.72	82.4	27.05	81.0	.0214	.7384	18.51.1	N	2 12 „
23	19.973	19.75	82.7	27.00	81.7	.0218	.7379	18.50.7	N	3 12 „

On the 22nd, at about 19h., Dip as obtained by Observation was 18°57'5.
On the 23rd, at about 20h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 25TH TO 27TH JANUARY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Jan. 25th—Noon.	19'561	19.59	81°6	27.34	81°4	8.0191	2.7416	18°52'6	C	4 12 p. m.
1	20.110	19.36	79.6	27.46	80.3	.0155	.7429	18.53.0	C	5 12 ,,
2	20.042	19.24	78.4	27.48	79.3	.0124	.7431	18.54.1	C	6 12 ,,
3	19.699	19.37	78.3	27.44	79.1	.0138	.7427	18.53.8	C	7 12 ,,
4	19.973	19.13	78.3	27.54	78.8	.0116	.7438	18.54.4	L	8 12 ,,
5	20.316	19.11	78.0	27.58	78.6	.0113	.7442	18.54.7	L	9 12 ,,
6	20.796	18.94	77.5	27.69	78.1	.0085	.7454	18.55.4	L	10 12 ,,
7	21.276	18.77	77.0	27.84	78.0	.0058	.7471	18.56.4	C	11 12 ,,
8	20.865	18.75	77.0	27.92	77.9	.0050	.7480	18.56.9	C	Midnight.
9	20.385	18.91	77.0	27.87	77.5	.0080	.7474	18.56.3	N	1 12 a. m.
10	20.385	19.10	77.0	27.92	77.4	.0112	.7480	18.56.2	N	2 12 ,,
11	20.385	19.11	77.0	27.95	77.2	.0113	.7483	18.56.3	N	3 12 ,,
12	20.110	19.19	76.8	27.94	77.2	.0126	.7482	18.55.9	N	4 12 ,,
13	19.561	19.27	76.6	27.96	77.1	.0130	.7484	18.56.0	L	5 12 ,,
14	19.493	19.34	76.6	27.97	77.0	.0151	.7485	18.55.8	L	6 12 ,,
15	18.875	19.34	76.5	28.06	76.7	.0151	.7495	18.56.2	L	7 12 ,,
16	20.110	19.46	76.9	28.20	76.7	.0161	.7511	18.56.7	L	8 12 ,,
17	21.345	19.54	78.0	28.22	76.8	.0183	.7513	18.56.6	C	9 12 ,,
18	20.933	19.85	79.4	27.68	77.9	.0234	.7453	18.53.6	C	10 12 ,,
19	20.110	20.03	80.9	27.58	79.0	.0263	.7442	18.52.7	C	11 12 ,,
20	20.179	20.03	82.0	27.56	80.0	.0263	.7440	18.52.7	C	Noon.
21	20.796	19.91	82.0	27.65	80.1	.0244	.7450	18.53.4	N	1 12 p. m.
22	21.139	19.60	81.5	27.50	80.1	.0194	.7434	18.53.3	N	2 12 ,,
23	20.933	19.42	80.0	27.38	80.0	.0165	.7420	18.53.1	N	3 12 ,,
Jan. 26th—Noon.	21.002	19.26	79.3	27.39	79.6	.0128	.7421	18.53.8	N	4 12 ,,
1	20.522	19.20	78.4	27.39	79.0	.0118	.7421	18.53.7	L	5 12 ,,
2	20.316	18.94	77.4	27.47	78.4	.0085	.7430	18.54.5	L	6 12 ,,
3	20.453	18.98	76.8	27.63	77.6	.0091	.7448	18.55.2	L	7 12 ,,
4	20.316	19.10	76.9	27.73	77.6	.0112	.7459	18.55.4	L	8 12 ,,
5	19.836	18.95	76.5	27.88	77.0	.0089	.7475	18.56.2	C	9 12 ,,
6	20.179	18.81	76.0	27.91	76.9	.0064	.7479	18.56.7	C	10 12 ,,
7	19.973	18.89	75.6	27.82	76.4	.0077	.7469	18.56.1	C	11 12 ,,
8	20.110	18.96	75.6	27.82	76.4	.0089	.7469	18.55.9	C	Midnight.
9	20.110	18.82	75.2	27.88	76.0	.0073	.7475	18.56.5	N	1 12 a. m.
10	20.042	18.95	74.7	27.93	75.8	.0087	.7481	18.56.4	N	2 12 ,,
11	20.042	18.96	74.3	28.10	75.0	.0089	.7500	18.57.2	N	3 12 ,,
12	19.904	18.90	73.8	28.05	74.4	.0079	.7494	18.57.1	N	4 12 ,,
13	19.767	18.93	73.4	28.13	74.0	.0083	.7503	18.57.4	L	5 12 ,,
14	18.875	18.93	73.1	28.11	73.8	.0083	.7501	18.57.4	L	6 12 ,,
15	19.150	19.02	72.8	28.16	73.5	.0099	.7506	18.57.3	L	7 12 ,,
16	20.110	19.26	73.1	28.35	73.6	.0128	.7528	18.57.8	L	8 12 ,,
17	20.865	19.58	74.0	28.34	74.0	.0189	.7526	18.56.9	C	9 12 ,,
18	20.659	19.95	75.7	28.09	75.0	.0251	.7498	18.55.0	C	10 12 ,,
19	21.179	19.99	76.9	27.91	75.8	.0257	.7479	18.54.1	C	11 12 ,,
20	19.973	19.88	77.5	27.92	76.5	.0238	.7480	18.54.5	C	Noon.
21	20.110	19.72	78.0	27.84	76.8	.0214	.7471	18.54.5	N	1 12 p. m.
22	19.767	19.58	78.4	27.71	77.0	.0189	.7457	18.54.3	N	2 12 ,,
23	19.973	19.42	78.2	27.68	77.8	.0165	.7453	18.54.4	N	3 12 ,,
Jan. 27th—Noon.	20.110	19.24	77.5	27.71	77.5	.0124	.7457	18.55.2	N	4 12 ,,
1	20.042	19.25	76.2	27.63	76.9	.0126	.7448	18.54.7	L	5 12 ,,
2	20.042	18.98	74.9	27.90	75.9	.0091	.7478	18.56.3	L	6 12 ,,
3	19.836	19.04	74.5	27.92	75.6	.0101	.7480	18.56.3	L	7 12 ,,
4	20.179	18.95	74.0	27.99	75.1	.0089	.7487	18.56.7	L	8 12 ,,
5	20.179	18.93	73.8	28.14	74.8	.0083	.7504	18.57.5	C	9 12 ,,
6	20.110	18.87	73.8	28.06	74.5	.0075	.7495	18.57.2	C	10 12 ,,
7	20.247	19.05	73.7	28.25	74.2	.0103	.7516	18.57.7	C	11 12 ,,
8	20.110	19.09	73.4	28.26	74.0	.0109	.7517	18.57.7	C	Midnight.
9	20.316	18.91	72.8	28.38	73.5	.0080	.7531	18.58.6	N	1 12 a. m.
10	20.110	18.78	71.8	28.54	73.0	.0058	.7548	18.59.5	N	2 12 ,,
11	20.316	18.87	71.5	28.58	72.6	.0075	.7552	18.59.4	N	3 12 ,,

On the 26th, at about 19h., Dip as obtained by Observation was 18°55'3.

DAILY OBSERVATIONS FROM 27TH TO 29TH JANUARY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
JAN. 27TH—12	20·179	18.86	70·9	28.67	72·2	8.0073	2.7562	18°59'8	N	4 12 a. m.
13	19.424	19.02	70.8	28.59	72.0	.0099	.7553	18.59.2	L	5 12 „
14	18.807	19.02	70.6	28.75	71.8	.0099	.7571	18.59.8	L	6 12 „
15	18.875	18.99	70.1	28.74	71.3	.0093	.7570	18.59.9	L	7 12 „
16	18.738	19.40	71.4	28.74	71.6	.0161	.7570	18.59.0	L	8 12 „
17	19.801	19.53	72.1	28.77	72.3	.0181	.7573	18.58.9	C	9 12 „
18	20.179	19.92	73.4	28.55	72.7	.0247	.7549	18.57.0	C	10 12 „
19	20.042	20.16	74.7	28.30	73.2	.0283	.7522	18.55.4	C	11 12 „
20	20.453	20.16	75.5	28.32	74.0	.0286	.7524	18.55.5	C	Noon.
21	20.385	20.06	76.4	28.05	74.9	.0269	.7494	18.54.6	N	1 12 p. m.
22	20.042	19.85	77.0	27.92	75.6	.0234	.7480	18.54.6	N	2 12 „
23	20.316	19.68	77.9	27.99	76.4	.0206	.7487	18.54.2	N	3 12 „
JAN. 28TH—Noon.	20.316	19.49	77.5	27.90	76.8	.0175	.7478	18.55.2	N	4 12 „
1	19.699	19.38	76.7	27.77	76.2	.0157	.7463	18.54.8	L	5 12 „
2	20.042	19.30	75.8	27.93	75.9	.0145	.7481	18.55.6	L	6 12 „
3	19.973	19.22	75.3	28.02	75.5	.0122	.7491	18.56.4	L	7 12 „
4	20.110	19.04	74.9	28.13	75.0	.0101	.7503	18.57.2	L	8 12 „
5	19.904	19.01	74.4	28.14	74.9	.0096	.7504	18.57.2	C	9 12 „
6	19.973	19.04	74.0	28.35	74.4	.0101	.7527	18.58.2	C	10 12 „
7	19.904	19.05	73.7	28.14	74.1	.0104	.7500	18.57.1	C	11 12 „
8	20.042	19.12	73.8	28.36	74.2	.0116	.7528	18.57.9	C	Midnight.
9	20.110	19.08	72.8	28.30	73.4	.0107	.7522	18.57.8	N	1 12 a. m.
10	19.904	18.99	72.2	28.41	73.0	.0093	.7534	18.58.5	N	2 12 „
11	19.493	19.02	72.2	28.40	72.9	.0099	.7533	18.58.4	N	3 12 „
12	19.561	19.03	72.0	28.48	72.7	.0099	.7541	18.58.7	N	4 12 „
13	19.013	19.02	71.7	28.52	72.4	.0099	.7546	18.58.9	L	5 12 „
14	18.807	19.03	71.3	28.53	72.2	.0099	.7547	18.59.0	L	6 12 „
15	18.875	19.04	71.0	28.69	71.9	.0101	.7564	18.59.5	L	7 12 „
16	19.287	19.39	71.7	28.74	71.9	.0159	.7570	18.59.0	L	8 12 „
17	20.522	19.72	72.6	28.77	72.4	.0214	.7573	18.58.5	C	9 12 „
18	21.139	20.06	74.4	28.49	73.0	.0269	.7543	18.56.6	C	10 12 „
19	21.208	20.20	75.5	28.17	74.0	.0292	.7509	18.54.9	C	11 12 „
20	20.453	20.27	76.5	27.85	74.9	.0304	.7474	18.53.4	C	Noon.
21	19.630	20.18	77.0	27.79	75.8	.0288	.7465	18.53.2	N	1 12 p. m.
22	19.905	20.12	78.0	27.81	76.4	.0280	.7468	18.53.5	N	2 12 „
23	20.453	19.98	78.4	27.92	77.2	.0255	.7480	18.54.2	N	3 12 „
JAN. 29TH—Noon.	21.002	19.74	78.4	27.96	77.4	.0223	.7485	18.54.8	N	4 12 „
1	20.728	19.41	77.3	27.81	77.0	.0162	.7468	18.55 0	L	5 12 „
2	19.973	19.21	76.5	27.82	76.6	.0119	.7469	18.55.5	L	6 12 „
3	20.110	19.13	75.9	27.94	76.0	.0120	.7482	18.56.0	L	7 12 „
4	19.836	19.09	75.2	28.00	75.6	.0109	.7489	18.57.5	L	8 12 „
5	19.973	19.10	74.5	28.15	75.1	.0112	.7505	18.57.2	C	9 12 „
6	19.767	19.08	74.2	27.90	74.9	.0097	.7478	18.56.2	C	10 12 „
7	19.767	19.12	73.6	27.97	74.4	.0116	.7485	18.56.2	C	11 12 „
8	19.767	19.13	73.4	28.02	74.0	.0116	.7491	18.56.4	C	Midnight.
9	19.904	19.28	73.9	28.32	74.0	.0130	.7524	18.57.6	N	1 12 a. m.
10	19.973	19.17	73.6	28.31	73.7	.0124	.7523	18.57.7	N	2 12 „
11	19.767	19.11	73.3	28.32	73.6	.0113	.7524	18.57.9	N	3 12 „
12	20.042	19.12	72.8	28.38	73.4	.0116	.7530	18.58.0	N	4 12 „
13	19.356	19.15	72.5	28.45	73.0	.0120	.7538	18.58.3	L	5 12 „
14	19.218	19.17	72.6	28.53	73.0	.0124	.7547	18.58.7	L	6 12 „
15	19.150	19.03	72.0	28.55	72.4	.0099	.7549	18.59.0	L	7 12 „
16	19.836	19.38	72.0	28.75	72.3	.0157	.7571	18.59.0	L	8 12 „
17	20.247	19.76	74.3	28.62	73.0	.0220	.7557	18.57.8	C	9 12 „
18	20.247	20.07	75.9	28.17	74.0	.0271	.7507	18.55.2	C	10 12 „
19	19.424	20.33	76.9	27.92	75.0	.0312	.7480	18.53.6	C	11 12 „
20	19.287	20.20	77.7	27.97	75.9	.0292	.7485	18.54.0	C	Noon.
21	19.561	20.39	78.6	27.96	76.5	.0318	.7484	18.53.5	N	1 12 p. m.
22	19.767	20.21	79.2	27.80	77.5	.0293	.7467	18.53.3	N	2 12 „
23	19.561	20.02	79.4	27.74	78.0	.0263	.7460	18.53.4	N	3 12 „

On the 29th, at about 19h., Dip as obtained by Observation was 19°12'5.

DAILY OBSERVATIONS FROM 30TH JANUARY TO 2ND FEBRUARY *1857*.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. — Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. — Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. — In English Units.	Absolute Vertical Force. — In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
JAN. 30TH—Noon.	20'385	19.72	79°0	27.83	78°2	8.0214	2.7470	18°54'5	N	4 12 p. m.
1	20.385	19.54	78.3	27.76	78.0	.0183	.7462	18.54.5	L	5 12 „
2	20.316	19.37	77.3	27.79	77.4	.0157	.7465	18.54.9	L	6 12 „
3	19.836	19.26	76.7	27.83	77.0	.0128	.7470	18.55.5	L	7 12 „
4	19.973	19.23	76.0	27.95	76.5	.0122	.7483	18.56.1	L	8 12 „
5	20.042	19.20	75.6	28.12	76.1	.0118	.7502	18.56.8	C	9 12 „
6	19.836	19.31	75.4	28.14	75.9	.0146	.7504	18.56.5	C	10 12 „
7	19.973	19.31	75.0	28.16	75.3	.0141	.7506	18.56.8	C	11 12 „
8	19.904	19.31	74.6	28.25	75.1	.0141	.7516	18.57.2	C	Midnight.
9	20.042	19.15	74.0	28.34	74.8	.0120	.7526	18.57.8	N	1 12 a. m.
10	19.561	19.28	73.8	28.33	74.3	.0130	.7525	18.57.7	N	2 12 „
11	20.042	19.08	73.1	28.52	73.9	.0107	.7546	18.58.8	N	3 12 „
12	19.973	19.06	72.6	28.47	73.3	.0105	.7540	18.58.6	N	4 12 „
13	19.699	19.00	72.2	28.57	73.0	.0095	.7551	18.59.1	L	5 12 „
14	19.218	19.32	72.7	28.57	73.0	.0149	.7551	18.58.4	L	6 12 „
15	18.807	19.28	72.9	28.61	73.0	.0130	.7556	13.58.9	L	7 12 „
16	19.287	19.45	73.4	28.79	73.0	.0169	.7575	18.59.1	L	8 12 „
17	20.247	19.78	74.4	28.81	73.5	.0222	.7578	18.58.5	C	9 12 „
18	21.071	20.03	75.5	28.67	74.0	.0263	.7562	18.57.3	C	10 12 „
19	20.796	20.30	77.0	28.26	75.0	.0308	.7517	18.55.1	C	11 12 „
20	20.590	20.33	78.0	27.98	76.0	.0312	.7486	18.53.8	C	Noon.
21	19.904	20.39	79.2	27.95	77.0	.0320	.7483	18.53.5	N	1 12 p. m.
22	20.179	20.20	80.0	27.84	78.0	.0292	.7471	18.53.4	N	2 12 „
23	20.042	20.20	80.5	27.87	79.0	.0292	.7474	18.53.5	N	3 12 „
FEB. 1ST—Noon.	20.110	19.75	80.7	27.80	80.0	.0218	.7467	18.54.2	L	4 12 „
1	20.110	19.63	79.8	27.76	79.4	.0198	.7462	18.54.2	L	5 12 „
2	20.042	19.48	78.7	27.86	78.8	.0173	.7473	18.55.1	L	6 12 „
3	20.042	19.32	78.1	27.91	78.3	.0149	.7479	18.55.5	L	7 12 „
4	20.179	19.11	77.6	27.98	78.0	.0113	.7487	18.56.5	L	8 12 „
5	20.110	18.97	77.0	28.02	77.4	.0091	.7491	18.56.8	N	9 12 „
6	20.042	19.10	76.8	28.12	77.2	.0112	.7502	18.57.0	N	10 12 „
7	20.247	19.09	76.6	28.13	77.0	.0099	.7503	18.57.2	N	11 12 „
8	20.316	19.20	75.8	28.20	76.5	.0118	.7511	18.57.2	N	Midnight.
9	20.659	19.38	75.2	28.13	76.4	.0157	.7503	18.56.4	C	1 12 a. m.
10	20.042	19.27	74.6	28.08	76.1	.0130	.7497	18 56.6	C	2 12 „
11	20.213	19.17	74.3	28.02	75.8	.0124	.7491	18.56.4	C	3 12 „
12	19.767	19.22	74.1	28.22	75.4	.0120	.7513	18.57.3	C	4 12 „
13	19.287	19.49	74.5	28.38	75.2	.0165	.7530	18.57.4	N	5 12 „
14	19.699	19.34	74.0	28.35	75.0	.0151	.7527	18 57.5	N	6 12 „
15	19.081	19.26	73.6	28.50	74.6	.0128	.7544	18.58.5	N	7 12 „
16	19.561	19.40	74.0	28.56	74.5	.0161	.7550	18.58.3	N	8 12 „
17	20.659	19.66	75.4	28.59	75.0	.0204	.7551	18.57.8	L	9 12 „
18	21.139	19.90	77.0	28.32	75.9	.0243	.7524	18 56.2	L	10 12 „
19	20.865	20.08	78.5	27.95	76.8	.0271	.7483	18.54.2	L	11 12 „
20	20.522	20.22	79.6	27.79	77.7	.0296	.7465	18.53.1	L	Noon.
21	20.179	20.18	80.4	27.68	78.5	.0288	.7453	18.52.8	C	1 12 p. m.
22	20.110	20.17	81.0	27.54	79.3	.0288	.7438	18.52.2	C	2 12 „
23	19.767	20.10	81.3	27.50	79.9	.0276	.7434	18.52.2	C	3 12 „
FEB. 2ND—Noon.	20.110	19.82	81.1	27.61	80.3	.0230	.7446	18.53.3	C	4 12 „
1	20.316	19.68	80.4	27.62	80.0	.0206	.7447	18.53.7	N	5 12 „
2	20.110	19.40	79.2	27.66	79.2	.0161	.7451	18.54.4	N	6 12 „
3	20.199	19.40	78.8	27.69	79.0	.0161	.7454	18.54.5	N	7 12 „
4	20.316	19.32	78.5	27.78	78.8	.0149	.7464	18 54.9	N	8 12 „
5	20.247	19.31	78.3	27.84	78.6	.0146	.7471	18.55.2	L	9 12 „
6	20.110	19.40	78.0	27.83	78.3	.0167	.7470	18.55.0	L	10 12 „
7	19.904	19.45	77.9	27.88	78.0	.0169	.7475	18.55.2	L	11 12 „
8	19.904	19.48	77.9	27.91	77.8	.0173	.7479	18.55.3	L	Midnight.
9	19.836	19.48	77.9	27.94	78.0	.0173	.7482	18.55.4	C	1 12 a. m.
10	19.561	19.51	77.7	27.94	77.9	.0178	.7482	18.55.3	C	2 12 „
11	19.630	19.54	77.7	27.97	77.9	.0183	.7485	18.55.5	C	3 12 „

On the *30th*, at about 19h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 2ND TO 4TH FEBRUARY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Feb. 2nd—12	19°561	19.49	77°3	28.03	77°5	8.0175	2.7492	18°55'7	C	4 12 a. m.
13	19.630	19.56	77.1	28.06	77.2	.0187	.7495	18.55.7	N	5 12 „
14	19.493	19.64	77.0	28.02	77.2	.0200	.7491	18.55.4	N	6 12 „
15	19.493	19.52	77.0	28.11	77.1	.0181	.7501	18.56.0	N	7 12 „
16	20.042	19.68	77.4	28.16	77.0	.0206	.7506	18.55.9	N	8 12 „
17	20.796	19.92	78.6	28.18	77.5	.0247	.7508	18.55.4	L	9 12 „
18	21.208	20.12	80.0	27.97	78.3	.0280	.7485	18.54.2	L	10 12 „
19	20.247	20.37	81.4	27.57	79.0	.0320	.7441	18.51.9	L	11 12 „
20	19.150	20.51	82.6	27.35	80.1	.0342	.7417	18.50.8	L	Noon.
21	18.121	20.39	82.9	27.28	80.6	.0322	.7409	18.50.6	C	1 12 p. m.
22	18.121	20.39	80.7	27.36	81.5	.0322	.7418	18.51.0	C	2 12 „
23	19.150	20.15	84.0	27.51	82.0	.0284	.7435	18.52.3	C	3 12 „
Feb. 3rd—Noon.	20.042	19.89	83.7	27.56	82.0	.0220	.7440	18.53.2	C	4 12 „
1	20.522	19.66	83.0	27.56	82.0	.0204	.7440	18.53.5	C	5 12 „
2	20.179	19.62	82.1	27.55	81.5	.0194	.7439	18.53.5	C	6 12 „
3	20.042	19.66	81.8	27.59	81.1	.0204	.7443	18.53.6	L	7 12 „
4	19.836	19.37	80.6	27.56	80.4	.0157	.7440	18.54.0	L	8 12 „
5	19.904	19.37	80.2	27.68	80.0	.0157	.7453	18.54.5	L	9 12 „
6	20.247	19.35	80.3	27.70	79.9	.0153	.7456	18.54.7	L	10 12 „
7	20.179	19.33	79.7	27.71	79.8	.0149	.7457	18.54.8	L	11 12 „
8	20.042	19.38	79.5	27.79	79.6	.0157	.7465	18.54.9	L	Midnight.
9	19.973	19.42	79.4	27.83	79.5	.0165	.7470	18.55.0	C	1 12 a. m.
10	19.836	19.44	79.4	27.66	79.5	.0167	.7451	18.54.3	C	2 12 „
11	19.973	19.41	79.1	27.64	79.2	.0162	.7449	18.54.3	C	3 12 „
12	20.042	19.50	79.0	27.61	79.1	.0177	.7446	18.54.0	C	4 12 „
13	19.424	19.54	79.0	27.61	79.1	.0183	.7446	18.54.0	L	5 12 „
14	19.287	19.58	79.0	27.63	79.1	.0189	.7448	18.53.9	L	6 12 „
15	19.356	19.50	79.0	27.68	78.8	.0177	.7453	18.54.3	L	7 12 „
16	20.110	19.58	79.0	27.83	78.6	.0189	.7470	18.54.7	L	8 12 „
17	21.415	19.90	80.0	27.88	79.2	.0243	.7475	18.54.3	N	9 12 „
18	22.101	20.04	81.0	27.69	79.6	.0265	.7454	18.53.1	N	10 12 „
19	21.963	20.14	81.0	27.35	80.0	.0280	.7415	18.51.5	N	11 12 „
20	21.619	20.24	81.2	27.11	80.2	.0298	.7391	18.50.2	N	Noon.
21	21.139	20.14	81.6	26.82	80.6	.0282	.7359	18.49.3	C	1 12 p. m.
22	19.699	19.97	81.5	26.70	81.0	.0255	.7346	18.49.0	C	2 12 „
23	19.081	19.90	81.3	26.86	81.1	.0243	.7363	18.49.9	C	3 12 „
Feb. 4th—Noon.	19.218	19.66	80.5	27.22	80.8	.0204	.7407	18.52.0	C	4 12 „
1	19.699	19.58	79.4	27.39	80.2	.0189	.7421	18.52.8	N	5 12 „
2	20.042	19.50	78.2	27.36	79.2	.0177	.7418	18.52.9	N	6 12 „
3	20.110	19.42	78.0	27.55	79.0	.0165	.7439	18.53.8	N	7 12 „
4	19.561	19.36	77.8	27.56	78.6	.0155	.7440	18.54.0	N	8 12 „
5	19.561	19.42	77.4	27.61	78.4	.0165	.7446	18.54.1	L	9 12 „
6	19.973	19.26	77.1	27.64	78.0	.0128	.7449	18.54.7	L	10 12 „
7	19.836	19.12	76.2	27.70	77.4	.0116	.7456	18.55.1	L	11 12 „
8	19.904	19.19	75.7	27.80	77.0	.0126	.7467	18.55.4	L	Midnight.
9	20.042	19.23	75.4	27.51	76.7	.0122	.7435	18.54.3	C	1 12 a. m.
10	19.630	19.30	74.9	27.78	76.3	.0145	.7464	18.54.9	C	2 12 „
11	19.458	19.16	74.4	27.87	75.7	.0122	.7474	18.55.7	C	3 12 „
12	19.424	19.17	74.0	28.01	75.4	.0124	.7490	18.56.4	C	4 12 „
13	19.287	19.26	73.5	28.18	75.0	.0128	.7508	18.57.0	N	5 12 „
14	19.287	19.24	73.0	28.18	74.3	.0124	.7508	18.57.1	N	6 12 „
15	18.807	19.19	72.8	28.35	74.0	.0126	.7527	18.57.8	N	7 12 „
16	19.836	19.56	73.4	28.49	74.0	.0187	.7543	18.57.6	N	8 12 „
17	20.933	19.75	75.0	28.52	74.8	.0218	.7546	18.57.3	L	9 12 „
18	22.168	19.92	76.1	28.23	75.3	.0247	.7513	18.55.6	L	10 12 „
19	21.345	20.26	77.6	27.68	76.1	.0302	.7453	18.52.7	L	11 12 „
20	19.904	20.24	78.7	27.54	77.0	.0298	.7438	18.52.1	L	Noon.
21	18.944	20.22	79.7	27.52	78.1	.0296	.7436	18.52.0	C	1 12 p. m.
22	18.807	20.07	80.0	27.43	78.8	.0271	.7426	18.52.0	C	2 12 „
23	19.081	20.04	80.1	27.52	79.5	.0265	.7436	18.52.4	C	3 12 „

On the 2nd, at about 19h., Dip as obtained by Observation was 19°18'8.

DAILY OBSERVATIONS FROM 5TH TO 8TH FEBRUARY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Feb. 5th—Noon.	19·356	19.86	79°8	27.64	79°7	8.0236	2.7449	18°53′3	C	4 12 p. m.
1	19.699	19.65	78.8	27.64	79.2	.0202	.7449	18.53.8	N	5 12 „
2	19.904	19.41	77.8	27.67	78.3	.0162	.7452	18.54.4	N	6 12 „
3	19.973	19.29	77.2	27.73	77.8	.0132	.7459	18.55.1	N	7 12 „
4	19.836	19.26	76.9	27.83	77.5	.0128	.7470	18.55.5	N	8 12 „
5	20.453	19.26	76.6	27.83	77.0	.0128	.7470	18.55.5	L	9 12 „
6	20.110	19.15	76.3	27.91	77.0	.0126	.7479	18.55.8	L	10 12 „
7	19.973	19.10	75.8	27.99	76.5	.0112	.7487	18.56.5	L	11 12 „
8	20.179	19.13	75.3	28.08	76.0	.0116	.7497	18.56.7	L	Midnight.
9	20.042	19.17	74.9	28.15	75.9	.0124	.7506	18.57.0	C	1 12 a. m.
10	19.630	19.27	74.7	28.06	75.5	.0130	.7495	18.56.5	C	2 12 „
11	19.493	19.17	74.4	28.08	75.4	.0124	.7497	18.56.7	C	3 12 „
12	19.218	19.35	74.1	28.11	75.2	.0153	.7501	18.56.4	C	4 12 „
13	18.815	19.34	73.5	28.13	74.6	.0151	.7503	18.56.5	N	5 12 „
14	18.875	19.61	73.5	28.15	74.0	.0195	.7505	18.56.0	N	6 12 „
15	18.670	19.69	73.9	28.28	74.0	.0208	.7519	18.56.4	N	7 12 „
16	19.561	19.72	74.6	28.52	74.5	.0214	.7546	18.57.5	N	8 12 „
17	20.654	19.94	75.7	28.57	75.0	.0249	.7551	18.57.1	L	9 12 „
18	21.276	20.05	76.6	28.49	75.6	.0267	.7543	18.56.6	L	10 12 „
19	21.345	20.17	77.8	28.19	76.2	.0288	.7509	18.54.9	L	11 12 „
20	20.659	20.28	78.7	27.93	77.0	.0304	.7481	18.53.7	L	Noon.
21	20.590	20.18	79.5	27.87	78.0	.0288	.7474	18.53.5	C	1 12 p. m.
22	20.453	20.09	79.9	27.73	78.7	.0273	.7459	18.53.3	C	2 12 „
23	20.316	20.03	80.0	27.68	79.3	.0263	.7453	18.53.2	C	3 12 „
Feb. 6th—Noon.	19.904	19.85	80.0	27.64	79.6	.0234	.7449	18.53.8	C	4 12 „
1	19.836	19.64	79.2	27.59	79.0	.0200	.7443	18.53.6	N	5 12 „
2	19.973	19.49	78.3	27.64	78.8	.0175	.7449	18.54.1	N	6 12 „
3	20.042	19.25	77.6	27.69	78.0	.0126	.7454	18.54.9	N	7 12 „
4	20.179	19.24	77.1	27.75	77.7	.0124	.7461	18.55.2	N	8 12 „
5	20.042	19.25	77.0	27.77	77.5	.0126	.7463	18.55.2	L	9 12 „
6	20.042	19.25	76.9	27.79	77.0	.0126	.7465	18.55.3	L	10 12 „
7	19.904	19.42	76.8	27.83	77.0	.0165	.7470	18.55.0	L	11 12 „
8	19.836	19.49	76.5	27.87	77.0	.0175	.7474	18.55.0	L	Midnight.
9	19.561	19.49	76.3	27.90	76.6	.0175	.7478	18.55.2	C	1 12 a. m.
10	19.356	19.45	76.0	27.88	76.5	.0169	.7475	18.55.2	C	2 12 „
11	19.081	19.53	75.9	27.94	76.1	.0181	.7482	18.55.3	C	3 12 „
12	19.081	19.69	75.8	28.04	76.1	.0208	.7489	18.55.2	C	4 12 „
13	18.738	19.59	75.6	28.04	76.0	.0191	.7493	18.55.6	N	5 12 „
14	18.601	19.55	75.4	28.05	75.8	.0185	.7494	18.55.6	N	6 12 „
15	18.738	19.52	75.3	28.07	75.6	.0181	.7496	18.55.9	N	7 12 „
16	19.699	19.58	75.8	28.23	75.5	.0189	.7514	18.56.4	N	8 12 „
17	20.316	19.78	76.9	28.24	75.9	.0212	.7515	18.56.3	L	9 12 „
18	21.071	20.02	78.4	28.08	76.8	.0272	.7497	18.54.8	L	10 12 „
19	20.453	20.28	80.0	27.69	77.9	.0304	.7454	18.52.7	L	11 12 „
20	19.424	20.39	81.0	27.46	78.7	.0322	.7429	18.51.4	L	Noon.
21	18.944	20.26	81.5	27.36	79.4	.0302	.7418	18.51.2	C	1 12 p. m.
22	18.601	20.14	81.1	27.37	79.7	.0282	.7419	18.51.6	C	2 12 „
23	19.013	20.27	80.9	27.55	80.0	.0304	.7439	18.52.1	C	3 12 „
Feb. 8th—Noon.	19.733	19.50	80.9	27.77	80.5	.0177	.7463	18.54.6	N	4 12 „
1	20.247	19.41	79.9	27.70	80.1	.0162	.7456	18.54.6	N	5 12 „
2	20.385	19.18	78.9	27.69	79.5	.0124	.7454	18.55.0	N	6 12 „
3	20.247	18.92	78.6	27.78	79.2	.0083	.7459	18.55.6	N	7 12 „
4	20.522	18.93	78.0	27.76	78.6	.0083	.7462	18.55.8	N	8 12 „
5	20.453	18.98	77.8	27.83	78.3	.0091	.7470	18.56.0	L	9 12 „
6	20.453	18.95	77.5	27.87	78.0	.0087	.7474	18.56.1	L	10 12 „
7	20.590	19.06	77.1	27.92	77.9	.0105	.7480	18.56.2	L	11 12 „
8	20.453	19.07	76.5	27.94	77.4	.0107	.7482	18.56.2	L	Midnight.
9	20.453	18.99	76.0	27.96	77.0	.0093	.7484	18.56.5	C	1 12 a. m.
10	20.042	18.98	76.0	27.86	76.9	.0091	.7473	18.56.1	C	2 12 „
11	19.630	19.36	75.5	27.79	76.4	.0155	.7465	18.54.9	C	3 12 „

On the 5th, at about 19h., Dip as obtained by Observation was 18°49′1.
On the 6th, at about 19h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 8TH TO 10TH FEBRUARY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Feb. 8th—12	19·424	19.16	75°6	28.06	76°2	8.0122	2.7495	18°56′6	C	4 12 a. m.
13	19.630	19.10	75.0	27.98	76.0	.0112	.7486	18.56.4	N	5 12 „
14	19.424	19.13	74.4	28.01	75.6	.0116	.7490	18.56.4	N	6 12 „
15	19.013	19.17	74.2	28.26	75.2	.0124	.7517	18.57.5	N	7 12 „
16	19.836	19.25	75.3	28.44	75.2	.0126	.7537	18.58.2	N	8 12 „
17	21.482	19.54	76.6	28.38	75.9	.0183	.7530	18.57.3	L	9 12 „
18	22.101	19.73	78.3	28.00	76.6	.0214	.7489	18.55.2	L	10 12 „
19	21.208	19.33	79.6	27.62	77.3	.0230	.7447	18.53.4	L	11 12 „
20	20.522	19.93	80.6	27.49	78.0	.0247	.7432	18.52.4	L	Noon.
21	19.836	19.91	81.3	27.54	79.1	.0244	.7438	18.52.9	C	1 12 p. m.
22	19.699	19.90	81.6	27.61	80.0	.0243	.7446	18.53.2	C	2 12 „
23	19.699	19.97	82.0	27.57	80.7	.0255	.7441	18.52.7	C	3 12 „
Feb. 9th—Noon.	19.973	19.89	81.9	27.71	81.0	.0240	.7457	18.53.7	C	4 12 „
1	20.590	19.54	80.6	27.63	80.5	.0183	.7448	18.54.1	N	5 12 „
2	19.973	19.30	79.5	27.49	79.5	.0145	.7432	18.57.7	N	6 12 „
3	20.385	19.20	78.8	27.59	79.0	.0118	.7443	18.54.6	N	7 12 „
4	20.247	18.98	78.4	27.91	78.8	.0091	.7457	18.55.6	N	8 12 „
5	20.316	19.04	78.1	27.68	78.2	.0101	.7453	18.55.3	L	9 12 „
6	20.385	18.92	77.7	27.76	77.9	.0083	.7462	18.55.8	L	10 12 „
7	20.179	19.05	77.2	27.79	77.6	.0103	.7465	18.55.7	L	11 12 „
8	20.590	19.07	76.4	27.82	77.3	.0107	.7469	18.55.7	L	Midnight.
9	20.179	19.11	76.3	27.87	77.0	.0113	.7478	18.56.1	C	1 12 a. m.
10	19.836	19.16	76.3	27.91	76.9	.0122	.7479	18.55.9	C	2 12 „
11	20.076	19.03	75.3	27.81	76.4	.0099	.7468	18.55.8	C	3 12 „
12	19.870	19.09	75.2	28.24	76.1	.0109	.7515	18.57.6	C	4 12 „
13	19.630	19.01	75.0	28.26	76.0	.0096	.7517	18.58.0	N	5 12 „
14	19.836	18.85	74.0	28.22	75.2	.0071	.7513	18.58.0	N	6 12 „
15	19.218	19.17	73.7	28.33	75.0	.0114	.7525	18.58.0	N	7 12 „
16	19.973	19.54	74.0	28.57	75.0	.0183	.7551	18.58.1	N	8 12 „
17	21.276	19.81	75.5	28.56	75.3	.0227	.7550	18.57.4	L	9 12 „
18	22.374	20.07	77.5	28.25	76.2	.0271	.7516	18.55.5	L	10 12 „
19	21.826	20.29	79.5	27.57	77.3	.0306	.7441	18.52.1	L	11 12 „
20	20.522	20.15	80.8	27.21	78.8	.0284	.7402	18.50.9	L	Noon.
21	19.424	20.12	81.6	26.66	80.2	.0280	.7341	18.48.6	C	1 12 p. m.
22	18.395	20.25	82.1	26.19	81.4	.0300	.7289	18.46.2	C	2 12 „
23	18.052	20.33	82.8	26.46	82.5	.0312	.7319	18.47.3	C	3 12 „
Feb. 10th-Noon.	19.287	20.10	82.5	27·18	82.5	.0276	.7398	18.50.8	C	4 12 „
1	20.453	19.77	81.5	26.49	84.5	.0222	.7323	18.48.8	N	5 12 „
2	20.865	19.00	80.0	26.52	82.2	.0095	.7326	18.50.3	N	6 12 „
3	21.276	18.43	79.8	26.59	81.4	.0001	.7333	18.51.9	N	7 12 „
4	21.002	18.71	79.4	26.72	80.8	.0047	.7348	18.51.8	N	8 12 „
5	20.659	18.99	78.9	26.75	80.0	.0093	.7351	18.51.4	L	9 12 „
6	20.522	18.95	78.1	26.85	79.5	.0087	.7362	18.51.7	L	10 12 „
7	20.453	19.02	77.7	26.94	79.0	.0099	.7372	18.52.0	L	11 12 „
8	20.590	18.93	77.2	27.01	78.4	.0083	.7380	18.52.7	L	Midnight.
9	20.247	19.09	76.9	26.99	78.0	.0109	.7377	18.52.2	C	1 12 a. m.
10	20.042	19.08	76.4	27.06	77.6	.0107	.7385	18.52.5	C	2 12 „
11	19.699	19.03	76.1	27.19	77.2	.0099	.7399	18.53.1	C	3 12 „
12	19.699	19.05	75.7	27.11	77.0	.0103	.7391	18.52.8	C	4 12 „
13	19.493	19.11	75.6	27.05	76.8	.0113	.7384	18.52.4	N	5 12 „
14	19.218	19.26	75.9	27.15	76.6	.0128	.7395	18.52.6	N	6 12 „
15	19.424	19.14	75.0	27.23	76.1	.0118	.7404	18.53.0	N	7 12 „
16	20.179	19.35	75.8	27.52	76.0	.0153	.7436	18.53.9	N	8 12 „
17	21.139	19.64	77·0	27.46	76.6	.0200	.7429	18.53.0	L	9 12 „
18	21.415	20.02	79.2	27.21	77.8	.0263	.7402	18.51.1	L	10 12 „
19	21.208	20.16	80.7	26.94	78.7	.0286	.7372	18.49.5	L	11 12 „
20	20.316	20.16	82.3	26.62	80.7	.0286	.7337	18.48.3	L	Noon.
21	19.081	20.01	83.4	26.40	82.7	.0260	.7313	18.47.7	C	1 12 p. m.
22	18.121	20.10	84.0	26.34	83.6	.0276	.7306	18.47.2	C	2 12 „
23	18.807	19.90	84.5	26.72	83.7	.0243	.7348	18.49.4	C	3 12 „

On the 9th, at about 19h., Dip as obtained by Observation was 19°06′5.

DAILY OBSERVATIONS FROM 11TH TO 13TH FEBRUARY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
FEB. 11TH—Noon.	19'630	19.74	84°1	26.81	83°5	8.0216	2.7358	18°50'0	C	4 12 p. m.
1	19.836	19.54	82.8	26.68	82.5	.0183	.7343	18.50.0	N	5 12 "
2	19.904	19.41	81.3	26.79	81.8	.0162	.7355	18.50.7	N	6 12 "
3	20.110	19.37	80.6	26.83	81.0	.0157	.7360	18.50.8	N	7 12 "
4	20.179	19.31	80.2	26.86	80.8	.0146	.7363	18.51.0	N	8 12 "
5	20.247	19.31	79.6	26.91	80.2	.0146	.7369	18.51.2	L	9 12 "
6	20.316	19.25	78.9	26.99	79.7	.0126	.7377	18.51.9	L	10 12 "
7	20.179	19.22	78.4	27.04	79.5	.0122	.7383	18.52.2	L	11 12 "
8	20.385	19.28	77.9	26.99	79.0	.0130	.7377	18.51.9	L	Midnight.
9	20.385	19.27	77.5	27.09	78.6	.0130	.7388	18.52.3	C	1 12 a. m.
10	19.973	19.32	77.5	27.13	78.6	.0149	.7393	18.52.2	C	2 12 "
11	20.042	19.30	77.3	27.29	78.4	.0145	.7410	18.52.9	C	3 12 "
12	19.767	19.29	76.9	27.04	78.0	.0132	.7383	18.52.1	C	4 12 "
13	19.424	19.30	76.5	27.11	77.8	.0145	.7391	18.52.1	N	5 12 "
14	19.767	19.26	76.3	27.23	77.3	.0128	.7404	18.52.9	N	6 12 "
15	19.699	19.37	76.8	27.35	77.1	.0147	.7417	18.53.2	N	7 12 "
16	20.110	19.57	77.8	27.33	77.5	.0189	.7415	18.52.6	N	8 12 "
17	20.385	19.87	79.1	27.14	78.0	.0238	.7394	18.51.1	L	9 12 "
18	20.316	20.25	80.7	26.99	79.0	.0300	.7377	18.49.7	L	10 12 "
19	20.179	20.52	82.6	26.80	80.6	.0345	.7357	18.48.3	L	11 12 "
20	20.385	20.45	83.9	26.62	82.0	.0333	.7337	18.47.8	L	Noon.
21	20.042	20.53	85.7	26.44	83.0	.0345	.7317	18.46.7	C	1 12 p. m.
22	19.904	20.18	85.9	26.40	83.9	.0288	.7313	18.47.3	C	2 12 "
23	19.356	19.91	85.8	26.35	84.0	.0244	.7307	18.47.8	C	3 12 "
FEB. 12TH—Noon.	19.630	19.64	85.0	26.46	84.3	.0200	.7319	18.48.7	C	4 12 "
1	20.042	19.38	83.8	26.51	83.6	.0147	.7325	18.49.6	N	5 12 "
2	20.385	19.23	82.5	26.58	82.8	.0122	.7332	18.50.2	N	6 12 "
3	20.042	19.30	81.9	26.61	82.2	.0145	.7336	18.50.0	N	7 12 "
4	20.042	19.40	81.4	26.74	81.9	.0161	.7350	18.50.5	N	8 12 "
5	20.042	19.45	81.0	26.74	81.4	.0169	.7350	18.50.4	L	9 12 "
6	20.199	19.32	80.3	26.83	81.0	.0149	.7361	18.50.9	L	10 12 "
7	20.316	19.38	79.8	26.86	80.4	.0157	.7363	18.50.9	L	11 12 "
8	20.316	19.30	79.1	26.89	80.0	.0145	.7366	18.51.1	L	Midnight.
9	20.247	19.31	79.0	26.97	79.9	.0146	.7375	18.51.5	C	1 12 a. m.
10	20.042	19.39	78.7	26.96	79.5	.0159	.7374	18.51.3	C	2 12 "
11	19.630	19.33	78.2	27.03	79.2	.0149	.7382	18.51.7	C	3 12 "
12	20.110	19.38	77.9	27.12	79.0	.0157	.7392	18.52.0	C	4 12 "
13	19.699	19.47	77.6	27.16	78.6	.0173	.7396	18.52.1	N	5 12 "
14	19.356	19.55	78.0	27.30	78.5	.0185	.7412	18.52.4	N	6 12 "
15	19.287	19.57	78.2	27.34	78.2	.0189	.7416	18.52.6	N	7 12 "
16	20.316	19.78	78.1	27.34	78.1	.0222	.7416	18.52.2	N	8 12 "
17	20.659	20.10	79.7	27.27	78.9	.0276	.7408	18.51.2	L	9 12 "
18	21.139	20.42	81.7	27.10	80.1	.0329	.7390	18.49.8	L	10 12 "
19	20.590	20.72	83.8	26.81	81.1	.0378	.7358	18.48.0	L	11 12 "
20	20.110	20.76	84.9	26.76	82.0	.0384	.7352	18.47.7	L	Noon.
21	20.316	20.54	85.0	26.91	83.0	.0347	.7369	18.48.6	C	1 12 p. m.
22	20.042	20.28	84.9	26.80	83.4	.0304	.7357	18.49.0	C	2 12 "
23	19.973	20.08	84.9	26.82	84.0	.0271	.7359	18.49.4	C	3 12 "
FEB. 13TH—Noon.	19.836	19.79	84.7	26.75	84.0	.0224	.7351	18.49.7	C	4 12 "
1	19.767	19.44	83.8	26.79	83.8	.0167	.7355	18.50.6	N	5 12 "
2	20.179	19.18	82.4	26.90	82.8	.0124	.7368	18.51.6	N	6 12 "
3	19.904	19.36	81.5	26.52	82.0	.0155	.7326	18.49.5	N	7 12 "
4	19.973	19.29	80.9	26.66	81.5	.0132	.7341	18.50.5	N	8 12 "
5	20.453	19.29	80.4	26.73	81.1	.0132	.7349	18.50.8	L	9 12 "
6	20.110	19.14	79.9	26.76	80.8	.0118	.7352	18.51.0	L	10 12 "
7	20.179	19.33	79.8	26.85	80.3	.0149	.7362	18.50.9	L	11 12 "
8	19.836	19.57	80.0	27.03	80.2	.0189	.7382	18.51.2	L	Midnight.
9	19.973	19.54	79.5	27.06	80.0	.0183	.7385	18.51.6	C	1 12 a. m.
10	19.767	19.53	79.1	27.09	79.7	.0181	.7388	18.51.7	C	2 12 "
11	19.561	19.53	78.8	27.08	79.4	.0181	.7387	18.51.7	C	3 12 "

On the 12th, at about 19h., Dip as obtained by Observation was 18°49'0.
On the 13th, at about 19h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 13TH TO 16TH FEBRUARY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Feb. 13th—12	19·390	19.53	78°5	27.11	79°2	8.0181	2.7391	18°51'8	C	4 12 a. m.
13	19.396	19.46	77.8	27.24	78.6	·0171	.7405	18.52.5	N	5 12 „
14	18.944	19.44	77.2	27.26	78.1	.0167	.7407	18·52.6	N	6 12 „
15	18.738	19.60	77.4	27.19	79.9	.0194	.7399	18.51.9	N	7 12 „
16	19.287	19.73	78.0	27.37	78.0	.0214	.7419	18.52.5	N	8 12 „
17	19.699	19.96	79.0	27.34	78.1	.0243	.7416	18.52.0	L	9 12 „
18	19.493	20.20	80.5	27.23	79.0	.0292	.7404	18.50.8	L	10 12 „
19	19.561	20.36	81.7	27.16	80.0	.0308	.7396	18.50.1	L	11 12 „
20	19.699	20.46	82.8	27.06	80.6	.0335	.7385	18.49.5	L	Noon.
21	19.699	20.31	83.3	27.01	81.4	.0309	.7380	18.49.7	C	1 12 p. m.
22	19.561	20.14	83.4	26.92	82.0	.0282	.7370	18.49.7	C	2 12 „
23	19.699	20.00	83.5	26.97	82.4	.0259	.7375	18.50.1	C	3 12 „
Feb. 15th-Noon.	19.424	19.85	83.1	26.86	82.6	.0243	.7363	18.50.0	C	4 12 „
1	19.630	19.75	82.1	26.93	82.1	.0218	.7371	18.50.4	C	5 12 „
2	20.042	19.53	81.1	27.04	81·2	.0181	.7383	18.51.5	C	6 12 „
3	19.973	19.48	80.5	26.95	81.0	.0173	.7373	18.51.2	C	7 12 „
4	19.836	19.55	80.0	26.99	80.6	.0185	.7377	18.51.1	N	8 12 „
5	19.767	19.57	79.8	27.06	80.3	.0189	.7385	18.51.3	L	9 12 „
6	19.904	19.42	79.1	27.04	80.0	.0165	.7383	18.51.6	L	10 12 „
7	20.042	19.41	78.7	27.22	79.4	·0162	.7392	18.52.0	L	11 12 „
8	20.316	19.52	78.4	27.21	79.0	.0181	.7391	18.51.8	L	Midnight.
9	20.110	19.58	78.4	26.90	79.0	.0189	.7368	18.50.7	C	1 12 a. m.
10	19.973	19.56	78.4	27.29	78.9	.0187	.7399	18.51.9	C	2 12 „
11	19.630	19.63	78.1	27.38	78.7	.0198	.7420	18.52.7	C	3 12 „
12	19.699	19.59	77.8	27.20	78.5	.0191	.7390	18.51.6	C	4 12 „
13	19.424	19.35	76.6	27.39	77.5	.0153	.7421	18.53.3	N	5 12 „
14	19.458	19.49	76.2	27.28	77.0	.0175	.7409	18.52.5	N	6 12 „
15	19.356	19.44	76.3	27.51	77.0	.0167	.7435	18.53.7	N	7 12 „
16	20.042	19.50	77.0	27.61	77.0	.0177	.7446	18.54.0	N	8 12 „
17	20.865	19.92	78.4	27.50	77.4	.0247	.7434	18.52.5	L	9 12 „
18	21.139	19.89	79.7	27.35	78.4	.0240	.7417	18.52 1	L	10 12 „
19	20.933	20.02	81.3	27.05	79.4	.0263	.7384	18.50.4	L	11 12 „
20	20.659	20.27	82.4	26.96	80.2	.0304	.7374	18.49.5	L	Noon.
21	21.139	20.27	82.9	26.97	81.2	.0304	.7375	18.49.6	C	1 12 p. m.
22	21.208	20.18	83.5	26.82	82.0	.0288	.7359	18.49.1	C	2 12 „
23	19.836	20.22	83.9	26.59	82.9	.0294	.7333	18.48.1	C	3 12 „
Feb. 16th-Noon.	19.493	19.88	83.7	26.63	83.0	.0238	.7338	18.49.0	C	4 12 „
1	20·865	18.97	83.0	26.89	83.0	.0091	.7366	18.51.9	N	5 12 „
2	21.139	18.83	81.8	26.76	82.1	.0067	.7352	18.51.7	N	6 12 „
3	20.590	18.68	81.2	26.75	81.6	·0042	.7351	18.52.1	N	7 12 „
4	20.933	18.68	80.6	26.84	81.3	.0042	.7361	18.52.4	N	8 12 „
5	20·728	19.01	80.2	26.87	80.8	.0096	.7364	18.51.7	L	9 12 „
6	20.522	19.07	79.6	26.90	80.1	.0108	.7368	18.51.8	L	10 12 „
7	20.659	19.04	79.0	26.97	79.9	.0101	.7375	18.52.2	L	11 12 „
8	20.316	19.19	78.8	26.94	79.5	.0126	.7372	18.52.6	L	Midnight.
9	19.973	19.25	78.3	27.02	79.0	.0126	.7381	18.52.0	C	1 12 a. m.
10	19.595	19.49	78.4	26.97	78.9	.0175	.7375	18.51.2	C	2 12 „
11	19.287	19.31	78.0	26.81	78.7	.0146	.7358	18.50.9	C	3 12 „
12	18.944	19.52	78.0	26.95	78.4	·0181	.7373	18.51.1	C	4 12 „
13	19.150	19.43	77.7	27.02	78.0	.0165	.7381	18.51.5	N	5 12 „
14	19.150	19.27	77.2	27.15	77.8	.0130	.7395	18.52.6	N	6 12 „
15	19.081	19.45	76.5	27.29	77.2	.0159	.7410	18.52.8	N	7 12 „
16	19.973	19.54	77.6	27.43	77.5	.0183	.7426	18.53.3	N	8 12 „
17	20.796	19.93	78.9	27.30	78.0	.0247	.7412	18.51.6	L	9 12 „
18	21.071	20.23	80.5	27.07	79.1	.0288	.7386	18.50.1	L	10 12 „
19	20.590	20.53	82.4	26.86	80.5	.0345	.7363	18.48.4	L	11 12 „
20	20.659	20.74	83.0	26.88	81.2	.0380	.7365	18.48.2	L	Noon.
21	21.758	20.61	84.2	26.94	82.3	.0358	.7372	18.48.6	C	1 12 p. m.
22	21.688	20.19	84.9	26.67	83.0	.0290	.7353	18.48.9	C	2 12 „
23	19.767	20.29	85.1	26.37	83.9	.0306	.7309	18.46.9	C	3 12 „

On the 13th, at about 19h., Deflection Observations were taken.
On the 16th, at about 19h., Dip as obtained by Observation was 18°45'3.

DAILY OBSERVATIONS FROM 17TH TO 19TH FEBRUARY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. + Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. − Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Feb. 17th-Noon.	19·561	20·05	85·2	26.49	84·5	8·0263	2·7322	18°48'0	C	4 12 p. m.
1	19.973	19.82	84.5	26.49	84.2	.0230	.7322	18.48.4	N	5 12 ,,
2	20·179	19·59	83.6	26.42	83.7	.0181	·7315	18.48.9	N	6 12 ,,
3	20.728	19.34	82·6	26.58	83.0	.0151	.7332	18.49.8	N	7 12 ,,
4	20.316	19·25	82.0	26.54	82.4	.0126	·7328	18.50.0	N	8 12 ,,
5	20.453	19.24	81.1	26.58	82.0	.0124	·7332	18.50.2	L	9 12 ,,
6	20·316	19.43	80.6	26.64	81.6	.0167	.7339	18.49.9	L	10 12 ,,
7	19·904	19.61	81.0	26.72	81.4	.0195	·7348	18.50.4	L	11 12 ,,
8	19.767	19.38	80.6	26.71	81.0	.0157	·7347	18.50.4	L	Midnight.
9	19.836	19.42	80.3	26.66	80.8	.0165	·7341	18.50.0	C	1 12 a. m.
10	19.904	19.46	79.7	26.67	80.2	·0171	.7342	18.50.0	C	2 12 ,,
11	19·699	19.38	79.0	26.90	79.9	.0167	.7368	18.51.0	C	3 12 ,,
12	19.356	19·42	78.5	26.92	79.6	.0165	.7370	18.51.1	C	4 12 ,,
13	19.630	19.43	78.3	27.06	79.0	.0165	.7385	18.51.7	N	5 12 ,,
14	19.630	19.45	78·0	27.17	78.8	.0169	.7397	18.52.2	N	6 12 ,,
15	19·630	19.30	77.5	27.15	78.2	.0145	.7395	18.52.3	N	7 12 ,,
16	19.973	19.71	78.5	27.31	78.5	.0211	.7413	18.52.3	N	8 12 ,,
17	20.522	20.07	79.6	27.23	79.0	.0271	.7404	18.51.1	L	9 12 ,,
18	20·453	20.48	81.0	27.11	79.8	.0337	.7391	18.49.7	L	10 12 ,,
19	20.042	20.72	82.3	26.95	80.6	.0378	.7373	18.48.5	L	11 12 ,,
20	19·218	20.77	83·0	26.94	81.3	.0386	.7372	18.48.2	L	Noon.
21	19·904	20.58	84.2	26.97	82.2	.0353	.7375	18.48.9	C	1 12 p. m.
22	20.316	20.28	84.9	26.89	83.0	.0304	.7366	18.49.2	C	2 12 ,,
23	20.316	20.03	85.2	26.66	84.0	·0263	.7341	18.48.2	C	3 12 ,,
Feb. 18th-Noon.	20.042	19·92	85.1	26.59	84.8	.0247	.7333	18.48.6	N	4 12 ,,
1	19.836	19.75	84.5	26.43	84.4	.0218	.7316	18.48.2	N	5 12 ,,
2	19.699	19.65	83.4	26.41	83.8	.0202	.7314	18.48.5	N	6 12 ,,
3	19.836	19.48	82.4	26.49	83.0	.0173	.7322	18.49.4	N	7 12 ,,
4	19.793	19.37	81.7	26.57	82.4	.0157	.7331	18.49.7	N	8 12 ,,
5	20.042	19.35	81.2	26.64	82.0	.0153	.7339	18.50.1	L	9 12 ,,
6	20·179	19.27	80.3	26.62	81.2	·0130	.7337	18.50.4	L	10 12 ,,
7	20.110	19.34	80.1	26.69	81.0	.0151	.7344	18.50.3	L	11 12 ,,
8	19.904	19.36	79·9	26.80	80·8	.0155	.7357	18.50.8	L	Midnight.
9	19·904	19.28	79.9	26.86	80.4	.0130	.7363	18.51.3	C	1 12 a. m.
10	19.630	19.33	79.7	26.73	80·4	·0149	.7359	18.51.9	C	2 12 ,,
11	19·630	19.44	79·4	27.00	80.0	.0167	.7379	18.51.4	C	3 12 ,,
12	19.493	19.28	78.6	26.90	79.6	·0130	.7373	18.51.7	C	4 12 ,,
13	19.218	19.46	78.3	26.97	79.1	.0171	.7375	18.51.3	N	5 12 ,,
14	19·287	19.42	78.1	27.07	79.0	·0165	.7386	18.51.7	N	6 12 ,,
15	19.081	19.54	78.6	27.17	79.0	·0183	.7397	18.52.1	N	7 12 ,,
16	20.659	19.54	78.7	27.29	79.0	·0183	.7410	18.52.6	N	8 12 ,,
17	21·345	19·85	79.6	27.20	79.2	.0234	.7401	18.51.5	L	9 12 ,,
18	21·758	20.30	81.3	26.85	80·3	·0308	·7362	18.48.9	L	10 12 ,,
19	21.688	20.49	83.0	26.64	81.3	.0339	·7339	18.47.7	L	11 12 ,,
20	20.179	20.71	84.4	26.32	83.2	·0376	.7303	18.45.4	L	Noon.
21	20.179	20.76	86.0	26.19	84.6	.0384	.7289	18.45.2	C	1 12 p. m.
22	19·424	20.69	87.0	26.03	85·7	.0371	.7272	18.44 6	C	2 12 ,,
23	19.218	20·50	87.5	25.99	86.4	.0341	.7267	18·44.9	C	3 12 ,,
Feb. 19th-Noon.	19·081	20.23	87.4	26.19	86.6	.0296	.7289	18.46.2	C	4 12 ,,
1	20.590	19.84	86.7	26.29	86·2	.0232	.7300	18·47.6	N	5 12 ,,
2	20.590	19.35	85.5	26.16	85.4	.0153	.7286	18.48.0	N	6 12 ,,
3	20.247	19.24	84.5	26.14	84.8	.0124	.7284	18.48.3	N	7 12 ,,
4	19.836	19.35	83.9	26.28	84.0	·0153	.7299	18.48.5	N	8 12 ,,
5	19.973	19.34	83.4	26.32	83.4	.0151	.7304	18.48.7	L	9 12 ,,
6	20.316	19.58	83.0	26.45	83·0	.0189	.7318	18.48.8	L	10 12 ,,
7	20.590	19.54	82.6	26.57	82.7	·0183	.7331	18.49.5	L	11 12 ,,
8	20.659	19.48	81·6	26.51	82.1	.0173	.7325	18.49.4	L	Midnight.
9	20·933	19.58	81.1	26.55	81.8	.0189	.7329	18.49.2	C	1 12 a. m.
10	20.385	19.48	80.9	26.60	81·3	.0173	.7335	18.49.8	C	2 12 ,,
11	19·904	19.35	80.6	26.70	81·0	.0153	.7346	18.50.4	C	3 12 ,,

On the 19th, at about 19h., Dip as obtained by Observation was 18°51'9.

DAILY OBSERVATIONS FROM 19TH TO 22ND FEBRUARY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
FEB. 19TH—12	19·767	19.38	80·5	26.63	81·0	8·0457	2·7338	18°50·0	C	4 12 a. m.
13	19.561	19.39	80.2	26.72	80.3	.0159	.7348	18.50.4	N	5 12 „
14	19·356	19.54	79.8	26.56	80.2	.0183	.7330	18.49.5	N	6 12 „
15	19.493	19.57	79.7	26.66	80.0	.0189	.7341	18.49.7	N	7 12 „
16	20.316	19.72	80.1	27.00	80.2	.0214	.7379	18.50.9	N	8 12 „
17	21.208	19.92	80.9	26.94	80.5	.0247	.7372	18.50.0	L	9 12 „
18	21.415	20.21	82.5	26.69	81.2	.0293	.7344	18.48.5	L	10 12 „
19	20.865	20.43	83.6	26.58	82.0	.0329	.7332	18.47.5	L	11 21 „
20	20.590	20.48	84.9	26.42	83.9	.0337	.7315	18.46.8	L	Noon.
21	20.110	20·36	86.0	26.31	84.8	.0318	.7303	18.46.5	C	1 12 p. m.
22	19.836	20.23	86.7	26.16	85.4	.0296	.7286	18.46.1	C	2 12 „
23	19.767	20.04	87.0	26.10	86.0	.0265	.7280	18.46.5	C	3 12 „
FEB. 20TH—Noon.	19.630	19.93	86.9	26.15	86.2	.0247	.7285	18.46.7	C	4 12 „
1	19.699	19.89	86.3	26.13	85.8	.0240	.7283	18.46·8	N	5 12 „
2	19.973	19.76	85.4	26.16	85.3	.0220	.7286	18.47.1	N	6 12 „
3	20.042	19.56	84.5	26.26	84.8	.0187	.7297	18.48.0	N	7 12 „
4	20.042	19.50	83·7	26.27	84.0	.0177	.7298	18.48.2	N	8 12 „
5	20.042	19.54	83.2	26.31	83.6	.0183	.7303	18.48.4	L	9 12 „
6	19.904	19.63	82.9	26.32	83.2	·0198	.7304	18.48.1	L	10 12 „
7	19.836	19.52	82.4	26.36	82.8	.0181	.7308	18.48.6	L	11 12 „
8	19.699	19.53	82.0	26.45	82.4	.0181	.7318	18.49.0	L	Midnight.
9	19.699	19.59	81.7	26.51	82.1	.0191	.7325	18.49.1	C	1 12 a. m.
10	19.630	19.57	81.3	26.72	82.0	.0189	.7348	18.50.0	C	2 12 „
11	19.424	19.60	81.0	26.71	81.9	.0194	.7347	18.50.0	C	3 12 „
12	19.013	19.56	80.8	26.63	81.6	.0187	.7338	18.49.6	C	4 12 „
13	19.081	19·60	80.5	26.65	81.1	.0194	.7340	18.49.7	N	5 12 „
14	19.081	19.65	80.5	26.70	81.0	.0202	.7346	18.49.8	N	6 12 „
15	19.081	19.51	80.3	26.77	80.8	.0178	.7353	18.50.4	N	7 12 „
16	20.110	19.73	80.0	26.91	80.3	.0214	.7369	18.50·5	N	8 12 „
17	21.139	19.86	80.0	26.93	80.2	.0236	.7371	18.50.2	L	9 12 „
18	21.139	20.18	80.8	26.79	80.3	.0288	.7355	18.49.0	L	10 12 „
19	21.002	20.41	82.0	26.75	81.1	.0326	.7351	18.48.3	L	11 12 „
20	20·453	20.41	82.9	26.62	82.0	.0326	.7337	18.47.8	L	Noon.
21	20.590	20.42	83.7	26.62	82.7	.0329	.7337	18.47.8	C	1 12 p. m.
22	20.659	20.34	84.4	26.51	83.3	.0314	.7325	18.47.6	C	2 12 „
23	20.796	19.96	84.4	26.31	83.8	.0253	.7303	18.47.4	C	3 12 „
FEB. 22ND—Noon.	20.728	20.07	84.9	26.10	85.0	.0271	.7280	18.46.3	C	4 12 „
1	19.767	19.80	84.0	25.95	84.8	.0226	.7263	18.46.1	C	5 12 „
2	19.493	19.72	83.0	25.96	83.9	.0214	.7264	18.46.4	C	6 12 „
3	19.767	19.66	82.4	26.19	83.4	.0214	.7269	18.47.5	C	7 12 „
4	19.836	19.62	82.0	26.35	82.9	.0198	.7307	18.48.3	N	8 12 „
5	20.110	19.52	81.2	26.39	82.5	.0181	.7311	18.48.7	L	9 12 „
6	20.110	19.59	80.6	26.45	82.0	.0191	.7318	18.48.8	L	10 12 „
7	20.042	19.66	80.3	26.51	81.5	.0204	.7325	18.49.3	L	11 12 „
8	19.836	19.58	80.7	26.64	81.3	.0189	.7339	18.49.6	L	Midnight.
9	19·767	19.47	80.4	26.61	81·0	.0173	.7336	18.49.8	C	1 12 a. m.
10	19.699	19.46	80.0	26.78	80.7	·0171	.7354	18.50.5	C	2 12 „
11	19.699	19.56	79.8	26.81	80.6	.0187	.7358	18.50.4	C	3 12 „
12	19.356	19.49	78.9	26.77	80.0	.0175	.7353	18.50.4	C	4 12 „
13	18.944	19.38	77.7	26.73	79.2	.0157	.7349	18.50.4	N	5 12 „
14	18.670	19.60	78.0	26.71	79.0	.0194	.7347	18.50·0	N	6 12 „
15	18.738	19.44	77.0	26.85	78.5	.0167	.7362	18.50.7	N	7 12 „
16	19.218	20.01	77.8	27.01	78.8	.0260	.7380	18.50.3	N	8 12 „
17	20.453	20.51	79.7	26.99	79.1	.0342	.7377	18.49.2	L	9 12 „
18	21.071	20.71	81.3	26.82	80.0	.0375	.7359	18.48.0	L	10 12 „
19	20.522	20·84	82.3	26.63	80.9	.0396	.7338	18.46.9	L	11 12 „
20	20·316	20.80	83.5	26.41	81.7	.0390	.7314	18.46.0	L	Noon.
21	20.110	20.62	84.1	26.30	82.6	.0361	.7302	18.45.9	C	1 12 p. m.
22	20.042	20.50	84.9	26.31	83.6	.0341	.7303	18.46.3	C	2 12 „
23	19.561	20.33	85.1	26.21	84.7	.0312	.7292	18.46.2	C	3 12 „

On the 20th, at about 19h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 23RD TO 25TH FEBRUARY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. — Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. — Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. — In English Units.	Absolute Vertical Force. — In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Feb. 23rd-Noon.	19′150	20.12	85°0	26.15	85°0	8.0280	2.7285	18°46′4	C	4 12 p. m.
1	19.013	19.78	84.1	26.20	84.7	.0222	.7291	18.47.3	N	5 12 „
2	19.630	19.54	82.9	26.27	83.6	.0183	.7298	18.48.2	N	6 12 „
3	19.973	19.37	82.2	26.33	83.0	.0157	.7305	18.48.7	N	7 12 „
4	20.316	19.30	81.8	26.38	82.5	.0145	.7310	18.49.0	N	8 12 „
5	20.179	19.28	81.0	26.42	82.2	.0130	.7315	18.49.5	L	9 12 „
6	20.385	19.27	80.3	26.46	81.9	.0130	.7319	18.49.6	L	10 12 „
7	20.247	19.48	80.6	26.51	81.6	.0173	.7325	18.49.4	L	11 12 „
8	20.110	19.61	80.4	26.54	81.4	.0195	.7328	18.49.1	L	Midnight.
9	19.836	19.71	80.5	26.54	81.2	.0211	.7328	18.49.0	C	1 12 a. m.
10	19.699	19.65	80.0	26.48	80.8	.0202	.7321	18.48.8	C	2 12 „
11	20.042	19.48	79.2	26.42	80.4	.0173	.7315	18.49.0	C	3 12 „
12	19.836	19.43	78.9	26.50	80.0	.0165	.7324	18.49.3	C	4 12 „
13	19.356	19.35	77.5	26.56	79.0	.0153	.7330	18.49.8	N	5 12 „
14	18.875	19.55	77.6	26.57	79.0	.0185	.7331	18.49.3	N	6 12 „
15	18.875	19.54	77.3	26.74	78.6	.0175	.7350	18.50.3	N	7 12 „
16	20.179	19.85	78.3	26.99	78.8	.0234	.7377	18.50.6	N	8 12 „
17	20.728	20.24	79.5	26.92	79.1	.0298	.7370	18.49.4	L	9 12 „
18	20.522	20.55	81.6	26.77	80.2	.0349	.7353	18.48.1	L	10 12 „
19	20.728	20.79	83.9	26.65	82.0	.0388	.7340	18.47.1	L	11 12 „
20	20.728	20.82	85.2	26.59	83.0	.0402	.7333	18.46.7	L	Noon.
21	20.042	20.73	86.2	26.42	83.9	.0378	.7315	18.46.3	C	1 12 p. m.
22	19.356	20.49	86.8	26.31	84.6	.0339	.7303	18.46.3	C	2 12 „
23	19.287	20.22	86.5	26.21	85.2	.0296	.7293	18.46.4	C	3 12 „
Feb. 24th-Noon.	19.356	20.12	86.1	26.13	85.9	.0280	.7283	18.46.3	C	4 12 „
1	19.356	20.00	85.4	26.13	85.6	.0259	.7283	18.46.5	N	5 12 „
2	19.699	19.86	84.3	26.15	84.9	.0236	.7285	18.46.9	N	6 12 „
3	20.042	19.77	83.8	26.22	84.0	.0214	.7293	18.47.6	N	7 12 „
4	19.836	19.66	83.2	26.31	83.7	.0204	.7303	18.48.1	N	8 12 „
5	19.904	19.70	82.8	26.27	83.0	.0210	.7298	18.47.8	L	9 12 „
6	19.973	19.73	82.7	26.36	82.6	.0214	.7308	18.48.2	L	10 12 „
7	19.904	19.74	82.7	26.45	82.4	.0216	.7318	18.48.4	L	11 12 „
8	20.042	19.65	82.9	26.51	82.0	.0202	.7325	18.49.0	L	Midnight.
9	19.973	19.61	82.5	26.66	81.9	.0195	.7341	18.49.6	C	1 12 a. m.
10	19.836	19.65	82.2	26.53	81.6	.0202	.7327	18.49.5	C	2 12 „
11	19.767	19.62	82.0	26.46	81.3	.0198	.7319	18.48.7	C	3 12 „
12	19.561	19.68	81.5	26.74	81.1	.0206	.7350	18.49.9	C	4 12 „
13	19.356	19.67	81.1	26.69	81.1	.0206	.7344	18.49.6	N	5 12 „
14	19.013	19.67	80.6	26.61	81.0	.0206	.7336	18.49.3	N	6 12 „
15	19.218	19.63	80.1	26.70	80.5	.0198	.7346	18.49.9	N	7 12 „
16	20.385	19.88	80.4	26.84	80.5	.0238	.7361	18.49.8	N	8 12 „
17	21.002	20.20	81.2	26.83	80.9	.0292	.7360	18.49.1	L	9 12 „
18	20.659	20.62	82.9	26.74	81.4	.0361	.7346	18.47.7	L	10 12 „
19	20.316	20.76	84.3	26.76	82.7	.0384	.7352	18.47.7	L	11 12 „
20	20.385	20.84	85.3	26.74	83.2	.0396	.7350	18.47.4	L	Noon.
21	20.385	20.60	85.9	26.57	84.0	.0357	.7331	18.47.1	C	1 12 p. m.
22	20.590	20.46	86.4	26.46	85.0	.0335	.7319	18.46.9	C	2 12 „
23	20.865	20.22	86.5	26.17	85.7	.0296	.7287	18.46.2	C	3 12 „
Feb. 25th-Noon.	20.453	19.91	86.0	25.93	86.0	.0244	.7261	18.45.9	C	4 12 „
1	19.973	19.92	85.4	25.97	85.6	.0245	.7265	18.45.9	N	5 12 „
2	20.042	19.81	84.2	26.06	85.0	.0227	.7275	18.46.6	N	6 12 „
3	19.699	19.63	83.6	26.09	84.5	.0198	.7278	18.47.1	N	7 12 „
4	19.630	19.62	83.2	26.18	84.0	.0198	.7288	18.47.5	N	8 12 „
5	19.630	19.62	82.5	26.20	83.5	.0198	.7291	18.47.6	L	9 12 „
6	19.767	19.71	82.2	26.22	83.4	.0211	.7293	18.47.6	L	10 12 „
7	19.767	19.73	82.3	26.31	83.0	.0214	.7303	18.48.0	L	11 12 „
8	19.973	19.49	81.7	26.32	82.6	.0175	.7304	18.48.4	L	Midnight.
9	19.493	19.63	81.0	26.05	82.3	.0198	.7274	18.46.9	C	1 12 a. m.
10	19.527	19.62	80.7	26.03	81.8	.0198	.7272	18.46.8	C	2 12 „
11	19.527	19.63	80.3	26.09	81.4	.0198	.7278	18.47.1	C	3 12 „

On the 23rd, at about 19h., Dip as obtained by Observation was 18°49′0.

DAILY OBSERVATIONS FROM 25TH TO 27TH FEBRUARY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. — Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. — Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. — In English Units.	Absolute Vertical Force. — In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
FEB. 25TH—12	19'287	19.79	80°5	26.09	81°3	8.0222	2.7278	18°46'8	C	4 12 a. m.
13	19.013	19.79	80.1	26.21	81.0	.0222	.7292	18.47.3	N	5 12 „
14	18.875	19.72	79.7	26.23	80.8	.0214	.7294	18.47.6	N	6 12 „
15	19.115	20.02	79.5	26.61	80.2	.0263	.7336	18.48.7	N	7 12 „
16	20.316	20.16	79.8	26.75	80.3	.0286	.7351	18.48.8	N	8 12 „
17	20.933	20.38	81.0	26.67	81.0	.0320	.7342	18.48.0	L	9 12 „
18	20.796	20.66	82.7	26.53	81.8	.0367	.7327	18.46.9	L	10 12 „
19	20.590	20.85	84.4	26.55	82.9	.0398	.7329	18.46.5	L	11 12 „
20	20.110	20.96	85.9	26.51	83.7	.0417	.7325	18.46.1	L	Noon.
21	20.110	20.81	86.4	26.49	84.7	.0391	.7322	18.46.3	C	1 12 p. m.
22	19.767	20.63	87.0	26.36	85.4	.0361	.7308	18.46.2	C	2 12 „
23	20.110	20.43	87.1	26.19	86.0	.0329	.7289	18.46.8	C	3 12 „
FEB. 26TH—Noon.	19.836	20.24	86.7	26.06	86.2	.0298	.7275	18.45.7	C	4 12 „
1	19.561	20.15	85.4	26.04	85.8	.0284	.7273	18.45.9	N	5 12 „
2	19.699	19.93	84.0	26.05	85.0	.0247	.7274	18.46.2	N	6 12 „
3	19.493	19.92	83.6	26.13	84.2	.0214	.7283	18.47.2	N	7 12 „
4	19.237	19.82	83.0	26.12	83.9	.0230	.7282	18.46.8	N	8 12 „
5	19.561	19.70	82.5	26.15	83.4	.0210	.7285	18.47.3	L	9 12 „
6	19.081	19.84	82.3	26.23	82.9	.0232	.7294	18.47.3	L	10 12 „
7	19.699	19.69	81.4	26.33	82.5	.0208	.7305	18.48.1	L	11 12 „
8	20.179	19.60	80.8	26.38	82.0	.0194	.7310	18.48.5	L	Midnight.
9	20.179	20.09	81.0	26.30	81.8	.0273	.7302	18.47.1	C	1 12 a. m.
10	20.659	19.83	80.7	26.40	81.6	.0230	.7313	18.48.1	C	2 12 „
11	20.865	19.47	79.8	26.30	81.4	.0173	.7302	18.48.4	C	3 12 „
12	20.830	19.27	78.9	26.36	80.9	.0130	.7308	18.49.2	C	4 12 „
13	20.385	19.45	78.8	26.40	80.1	.0169	.7313	18.48.9	N	5 12 „
14	20.316	19.15	78.2	26.34	79.7	.0126	.7306	18.49.2	N	6 12 „
15	20.247	19.11	78.2	26.42	79.3	.0113	.7315	18.49.8	N	7 12 „
16	20.830	19.47	79.2	26.59	79.7	.0173	.7333	18.49.7	N	8 12 „
17	21.002	20.04	80.4	26.38	80.0	.0265	.7310	18.47.5	L	9 12 „
18	20.933	20.38	82.1	26.27	81.0	.0320	.7298	18.46.3	L	10 12 „
19	20.728	20.70	84.0	26.22	82.4	.0374	.7293	18.45.5	L	11 12 „
20	20.179	20.76	85.5	26.10	83.2	.0383	.7280	18.44.9	L	Noon.
21	19.699	20.69	86.3	26.15	84.4	.0371	.7285	18.45.2	C	1 12 p. m.
22	20.590	20.24	86.9	26.21	85.4	.0298	.7292	18.46.3	C	2 12 „
23	21.482	19.64	87.4	26.25	86.1	.0200	.7296	18.47.8	C	3 12 „
FEB. 27TH—Noon.	21.276	19.48	87.4	25.95	86.7	.0173	.7263	18.46.9	C	4 12 „
1	20.796	19.42	86.0	25.89	86.2	.0165	.7256	18.46.7	N	5 12 „
2	20.385	19.06	84.8	25.92	85.5	.0105	.7260	18.47.6	N	6 12 „
3	20.316	19.16	84.0	25.96	85.0	.0122	.7264	18.47.5	N	7 12 „
4	19.767	19.36	83.8	26.02	84.3	.0155	.7272	18.47.3	N	8 12 „
5	20.110	19.16	83.1	26.23	83.7	.0122	.7293	18.48.7	L	9 12 „
6	19.904	19.33	82.3	26.22	83.4	.0149	.7293	18.48.3	L	10 12 „
7	20.179	19.20	81.6	26.30	82.8	.0118	.7302	18.49.0	L	11 12 „
8	20.385	19.15	81.0	26.34	82.3	.0120	.7306	18.49.2	L	Midnight.
9	20.316	19.23	80.8	26.36	82.0	.0122	.7308	18.49.3	C	1 12 a. m.
10	20.179	19.38	80.5	26.25	81.8	.0157	.7296	18.48.3	C	2 12 „
11	19.938	19.29	80.4	26.44	81.4	.0132	.7319	18.49.6	C	3 12 „
12	20.110	19.34	79.7	26.44	81.2	.0151	.7317	18.49.3	C	4 12 „
13	20.042	19.48	79.8	26.60	80.7	.0173	.7335	18.49.8	N	5 12 „
14	19.836	19.57	79.7	26.65	80.3	.0189	.7340	18.49.7	N	6 12 „
15	19.630	19.47	78.8	26.64	79.8	.0173	.7339	18.49.9	N	7 12 „
16	19.973	19.94	79.6	26.80	80.0	.0249	.7357	18.49.6	N	8 12 „
17	20.042	20.14	80.7	26.73	80.4	.0282	.7349	18.48.9	L	9 12 „
18	19.767	20.40	82.6	26.57	81.5	.0325	.7327	18.47.4	L	10 12 „
19	19.836	20.51	84.0	26.36	82.7	.0342	.7308	18.46.5	L	11 12 „
20	19.081	20.48	85.9	26.30	84.1	.0337	.7302	18.46.2	L	Noon.
21	19.081	20.52	87.2	26.32	85.1	.0345	.7304	18.46.1	C	1 12 p. m.
22	19.424	20.44	87.6	26.41	86.0	.0331	.7314	18.46.8	C	2 12 „
23	19.767	20.08	87.8	26.27	87.0	.0271	.7298	18.47.0	C	3 12 „

On the 26th, at about 19h., Dip as obtained by Observation was 18°55'0.

DAILY OBSERVATIONS FROM 28TH FEBRUARY TO 3RD MARCH 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
FEB. 28TH-Noon.	19°973	19.85	87°5	26.13	87°1	8.0234	2.7283	18°46'9	C	4 12 p. m.
1	20.042	19.69	86.6	26.08	86.7	.0208	.7277	18.47.0	N	5 12 ,,
2	19.836	19.47	85.0	26.13	85.5	.0173	.7283	18.47.7	N	6 12 ,,
3	20.179	19.31	83.8	26.19	84.8	.0146	.7289	18.48.1	N	7 12 ,,
4	19.904	19.22	83.2	26.31	84.1	.0122	.7303	18.49.1	N	8 12 ,,
5	19.904	19.25	83.0	26.34	83.9	.0126	.7306	18.49.1	L	9 12 ,,
6	20.316	19.38	82.3	26.27	83.2	.0157	.7298	18.48.4	L	10 12 ,,
7	20.110	19.40	82.0	26.36	82.9	.0167	.7308	18.48.7	L	11 12 ,,
8	19.973	19.36	81.8	26.61	82.5	.0155	.7336	18.49.9	L	Midnight.
9	19.973	19.42	81.5	26.54	82.1	.0165	.7328	18.49.5	C	1 12 a. m.
10	19.973	19.48	80.9	26.57	81.8	.0173	.7331	18.49.6	C	2 12 ,,
11	19.870	19.42	80.6	26.69	81.3	.0165	.7344	18.50.1	C	3 12 ,,
12	20.110	19.50	80.7	26.72	81.3	.0177	.7348	18.50.2	C	4 12 ,,
13	19.973	19.47	80.3	26.68	81.0	.0173	.7343	18.50.1	N	5 12 ,,
14	19.493	19.45	80.0	26.62	80.6	.0169	.7337	18.49.9	N	6 12 ,,
15	19.630	19.54	79.7	26.85	80.2	.0183	.7362	18.50.6	N	7 12 ,,
16	20.796	19.69	80.3	27.06	80.4	.0206	.7385	18.51.2	N	8 12 ,,
17	21.139	20.04	81.0	26.93	80.8	.0265	.7371	18.49.8	L	9 12 ,,
18	21.139	20.35	82.3	26.77	81.5	.0316	.7353	18.48.5	L	10 12 ,,
19	21.139	20.48	83.6	26.69	82.2	.0337	.7344	18.47.9	L	11 12 ,,
20	20.865	20.49	84.5	26.59	83.0	.0339	.7333	18.47.5	L	Noon.
21	20.865	20.58	85.5	26.64	84.0	.0351	.7339	18.47.5	C	1 12 p. m.
22	21.002	20.62	86.5	26.51	85.2	.0361	.7325	18.46.9	C	2 12 ,,
23	21.002	20.46	87.0	26.35	86.0	.0335	.7307	18.46.5	C	3 12 ,,
MAR. 2ND-Noon.	20.590	20.17	87.8	26.03	87.8	.0288	.7272	18.45.6	N	4 12 ,,
1	20.042	19.89	87.2	25.93	87.6	.0240	.7261	18.45.9	N	5 12 ,,
2	19.973	19.70	86.0	25.96	87.0	.0210	.7264	18.46.4	N	6 12 ,,
3	19.836	19.55	85.0	25.98	86.0	.0185	.7266	18.46.7	N	7 12 ,,
4	19.836	19.66	84.5	25.99	85.7	.0204	.7267	18.46.7	C	8 12 ,,
5	19.767	19.66	84.0	26.15	85.0	.0204	.7285	18.47.4	N	9 12 ,,
6	19.699	19.71	83.6	26.21	84.4	.0211	.7292	18.47.5	N	10 12 ,,
7	19.904	19.91	83.2	26.30	84.0	.0244	.7302	18.47.5	N	11 12 ,,
8	19.493	19.77	82.8	26.37	83.6	.0222	.7309	18.48.0	N	Midnight.
9	19.699	19.80	82.7	26.45	83.2	.0226	.7318	18.48.3	L	1 12 a. m.
10	19.699	19.62	82.3	26.53	83.0	.0198	.7327	18.49.1	L	2 12 ,,
11	19.699	19.60	81.8	26.52	82.7	.0194	.7326	18.49.1	L	3 12 ,,
12	19.561	19.80	81.7	26.59	82.4	.0226	.7333	18.48.9	L	4 12 ,,
13	19.356	19.79	81.5	26.66	82.1	.0224	.7341	18.49.3	C	5 12 ,,
14	19.218	19.70	81.0	26.65	81.8	.0210	.7340	18.49.5	C	6 12 ,,
15	19.218	19.93	80.7	26.64	81.5	.0247	.7339	18.48.8	C	7 12 ,,
16	19.699	19.88	81.2	26.75	81.5	.0238	.7351	18.49.5	C	8 12 ,,
17	20.316	20.24	82.0	26.73	81.7	.0298	.7349	18.48.6	N	9 12 ,,
18	20.728	20.63	83.5	26.57	82.3	.0361	.7331	18.47.1	N	10 12 ,,
19	20.933	20.70	85.0	26.54	83.4	.0374	.7328	18.46.9	N	11 12 ,,
20	20.042	20.89	86.8	26.32	84.6	.0404	.7304	18.45.5	N	Noon.
21	20.453	20.74	87.1	26.39	85.5	.0380	.7311	18.46.1	L	1 12 p. m.
22	21.276	20.67	87.8	26.43	86.2	.0369	.7316	18.46.4	L	2 12 ,,
23	21.071	20.45	87.7	26.23	86.8	.0339	.7295	18.46.0	L	3 12 ,,
MAR. 3RD-Noon.	20.522	20.27	87.5	26.05	87.0	.0304	.7274	18.45.6	L	4 12 ,,
1	19.699	20.14	86.9	26.01	86.9	.0282	.7270	18.45.8	C	5 12 ,,
2	19.767	19.85	86.0	26.14	86.4	.0234	.7284	18.46.9	C	6 12 ,,
3	19.767	19.72	85.0	26.11	85.9	.0214	.7281	18.47.1	C	7 12 ,,
4	19.699	19.75	84.8	26.08	85.3	.0218	.7277	18.46.8	C	8 12 ,,
5	19.904	19.74	84.5	26.16	84.8	.0216	.7286	18.47.1	N	9 12 ,,
6	19.973	19.59	83.9	26.23	84.4	.0181	.7293	18.48.0	N	10 12 ,,
7	20.110	19.72	83.4	26.28	83.8	.0214	.7297	18.47.8	N	11 12 ,,
8	20.042	19.73	82.7	26.31	83.6	.0214	.7303	18.48.0	N	Midnight.
9	19.767	19.84	82.1	26.35	83.0	.0232	.7307	18.47.9	L	1 12 a. m.
10	19.904	19.86	81.8	26.40	83.6	.0236	.7313	18.48.0	L	2 12 ,,
11	19.630	19.73	81.3	26.42	82.3	.0214	.7315	18.48.4	L	3 12 ,,

On the 2nd, at about 20h., Dip as obtained by Observation was 18°45'6.

DAILY OBSERVATIONS FROM 3RD TO 5TH MARCH 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
MAR. 3RD—12	19°424	19.78	81°0	26.51	82°1	8.0222	2.7325	18°48'7	L	4 12 a. m.
13	19.081	19.90	81.5	26.53	82.1	.0243	.7327	18.48.6	C	5 12 „
14	19.630	19.81	81.4	26.45	82.0	.0227	.7318	18.48.3	C	6 12 „
15	19.287	19.69	81.1	26.42	81.7	.0208	.7315	18.48.5	C	7 12 „
16	19.973	19.90	81.5	26.50	81.6	.0243	.7324	18.48.4	C	8 12 „
17	20.385	20.16	82.5	26.50	82.0	.0286	.7324	18.47.7	N	9 12 „
18	20.659	20.42	83.8	26.42	82.5	.0329	.7315	18.46.9	N	10 12 „
19	20.247	20.65	84.8	26.20	83.2	.0365	.7291	18.45.4	N	11 12 „
20	20.385	20.55	84.8	26.27	84.0	.0349	.7298	18.45.9	N	Noon.
21	20.590	20.45	85.1	26.29	84.6	.0333	.7300	18.46.3	L	1 12 p. m.
22	20.659	20.28	85.5	26.20	85.0	.0314	.7291	18.46.3	L	2 12 „
23	20.796	20.04	85.7	26.15	85.6	.0265	.7285	18.46.5	L	3 12 „
MAR. 4TH—Noon.	20.110	19.98	85.6	26.03	85.9	.0255	.7272	18.46.0	L	4 12 „
1	19.973	19.78	84.9	26.05	85.6	.0222	.7274	18.46.6	C	5 12 „
2	19.904	19.66	83.9	26.07	84.9	.0204	.7276	18.47.0	C	6 12 „
3	19.836	19.55	83.5	26.15	84.6	.0185	.7283	18.47.4	C	7 12 „
4	19.699	19.64	83.6	26.20	84.2	.0200	.7291	18.47.6	C	8 12 „
5	20.110	19.48	82.5	26.22	84.0	.0173	.7293	18.48.1	N	9 12 „
6	19.836	19.60	82.4	26.21	83.5	.0194	.7292	18.47.7	N	10 12 „
7	19.836	19.48	82.4	26.31	83.0	.0173	.7303	18.48.5	N	11 12 „
8	20.110	19.49	81.8	26.38	82.6	.0173	.7310	18.48.7	N	Midnight.
9	19.973	19.59	81.7	26.37	82.4	.0191	.7309	18.48.4	L	1 12 a. m.
10	19.561	19.58	81.1	26.51	82.0	.0189	.7325	18.49.1	L	2 12 „
11	19.493	19.54	80.7	26.50	81.5	.0183	.7324	18.49.2	L	3 12 „
12	19.699	19.45	80.3	26.43	81.1	.0169	.7316	18.49.0	L	4 12 „
13	19.699	19.50	79.3	26.78	81.0	.0177	.7354	18.50.4	C	5 12 „
14	19.767	19.72	79.9	26.90	80.9	.0214	.7368	18.50.5	C	6 12 „
15	20.453	19.71	80.0	26.97	80.7	.0211	.7375	18.50.8	C	7 12 „
16	20.865	19.76	80.3	26.97	80.9	.0220	.7375	18.50.6	C	8 12 „
17	20.933	20.15	81.2	26.83	81.0	.0284	.7360	18.49.3	N	9 12 „
18	20.865	20.41	82.4	26.73	81.7	.0326	.7349	18.48.2	N	10 12 „
19	20.385	20.65	83.8	26.67	82.3	.0365	.7342	18.47.4	N	11 12 „
20	20.110	20.60	84.2	26.63	83.1	.0357	.7338	18.47.4	N	Noon.
21	19.699	20.49	84.6	26.52	83.7	.0339	.7331	18.47.4	L	1 12 p. m.
22	19.699	20.31	84.9	26.47	84.3	.0309	.7320	18.47.4	L	2 12 „
23	20.042	20.12	85.0	26.45	84.9	.0278	.7318	18.47.7	L	3 12 „
MAR. 5TH—Noon.	20.316	19.97	84.7	26.37	85.0	.0255	.7309	18.47.5	L	4 12 „
1	20.179	19.82	83.9	26.29	84.8	.0230	.7300	18.47.6	C	5 12 „
2	19.973	19.68	83.0	26.32	84.0	.0206	.7304	18.48.0	C	6 12 „
3	20.110	19.49	82.7	26.44	83.5	.0167	.7317	18.49.1	C	7 12 „
4	20.110	19.65	82.6	26.15	83.5	.0202	.7285	18.47.4	C	8 12 „
5	19.904	19.54	82.2	26.11	83.0	.0183	.7281	18.47.5	N	9 12 „
6	20.179	19.65	82.0	26.28	82.8	.0202	.7299	18.47.9	N	10 12 „
7	20.042	19.65	81.4	26.41	82.3	.0202	.7314	18.48.5	N	11 12 „
8	19.904	19.65	81.0	26.46	82.0	.0202	.7319	18.48.7	N	Midnight.
9	19.973	19.45	80.4	26.50	81.4	.0167	.7324	18.49.3	L	1 12 a. m.
10	19.561	19.63	80.0	26.52	81.2	.0198	.7326	18.49.0	L	2 12 „
11	20.042	19.68	79.8	26.59	81.0	.0206	.7333	18.49.2	L	3 12 „
12	19.836	19.45	79.1	26.67	80.5	.0169	.7342	18.50.0	L	4 12 „
13	19.699	19.60	78.5	26.47	80.4	.0194	.7319	18.48.8	C	5 12 „
14	19.733	19.60	78.1	26.42	79.9	.0208	.7315	18.48.5	C	6 12 „
15	19.870	19.77	78.6	26.72	79.6	.0212	.7348	18.49.8	C	7 12 „
16	20.453	20.01	79.3	26.65	80.1	.0260	.7340	18.48.8	C	8 12 „
17	20.316	20.32	80.4	26.62	80.6	.0312	.7337	18.48.1	N	9 12 „
18	19.904	20.68	82.0	26.34	81.4	.0369	.7306	18.46.0	N	10 12 „
19	19.978	20.72	83.4	26.26	82.1	.0378	.7297	18.45.6	N	11 12 „
20	19.670	20.66	84.0	26.33	83.0	.0367	.7305	18.46.0	N	Noon.
21	19.532	20.71	84.9	26.30	83.9	.0375	.7302	18.45.7	L	1 12 p. m.
22	19.081	20.52	85.2	26.30	84.6	.0345	.7302	18.46.0	L	2 12 „
23	19.699	20.29	85.4	26.21	85.0	.0306	.7292	18.46.2	L	3 12 „

On the 5th, at about 19h., Dip as obtained by Observation was 19°01'3.

DAILY OBSERVATIONS FROM 6TH TO 9TH MARCH 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Mar. 6th-Noon.	19·973	20.07	85°0	26.14	85°2	8.0271	2.7284	18°46′4	L	4 12 p. m.
1	19.561	19.98	84.5	25.95	85.0	.0255	.7265	18.45.8	C	5 12 ,,
2	19.630	19.88	83.6	26.02	84.6	.0238	.7271	18.46.3	C	6 12 ,,
3	19.699	19.66	83.0	25.99	84.0	.0204	.7267	18.46.7	C	7 12 ,,
4	19.904	19.59	82.6	26.09	83.5	.0191	.7278	18.47.2	C	8 12 ,,
5	19.904	19.56	82.3	26.24	83.1	.0187	.7295	18.48.2	N	9 12 ,,
6	19.904	19.60	82.0	26.29	83.0	.0194	.7300	18.48.1	N	10 12 ,,
7	20.042	19.51	81.8	26.33	82.8	.0178	.7305	18.48.5	N	11 12 ,,
8	19.904	19.67	81.2	26.37	82.3	.0206	.7309	18.48.2	N	Midnight.
9	19.767	19.59	81.0	26.35	82.0	.0191	.7307	18.48.4	L	1 12 a. m.
10	19.081	19.70	80.5	26.40	81.4	.0210	.7313	18.48.4	L	2 12 ,,
11	18.875	19.74	79.9	26.57	81.0	.0216	.7331	18.48.9	L	3 12 ,,
12	19.424	19.52	78.9	26.55	80.2	.0181	.7329	18.49.4	L	4 12 ,,
13	19.013	19.42	77.9	26.29	79.6	.0165	.7300	18.48.4	C	5 12 ,,
14	18.875	19.42	77.0	26.65	79.0	.0165	.7340	18.50.0	C	6 12 ,,
15	21.415	19.34	76.7	26.62	78.6	.0151	.7337	13.50.1	C	7 12 ,,
16	21.208	19.69	77.4	26.65	78.8	.0208	.7340	18.49.5	C	8 12 ,,
17	20.624	19.81	78.7	26.46	79.2	.0227	.7319	18.48.3	N	9 12 ,,
18	19.973	20.23	80.8	26.15	80.2	.0296	.7285	18.46.1	N	10 12 ,,
19	18.670	20.49	82.8	25.87	81.6	.0339	.7254	18.44.4	N	11 12 ,,
20	18.327	20.25	84.0	26.08	82.8	.0300	.7277	18.48.5	N	Noon.
21	18.532	20.25	85.0	26.18	83.5	.0300	.7288	18.46.2	L	1 12 p. m.
22	19.287	20.09	85.3	26.11	84.4	.0273	.7281	18.46.3	L	2 12 ,,
23	19.973	20.05	85.6	26.06	85.4	.0267	.7275	18.46.1	L	3 12 ,,
Mar. 8th-Noon.	20.110	19.72	84.8	26.03	85.0	.0214	.7272	18.46.9	C	4 12 ,,
1	19.630	19.66	83.9	25.94	84.7	.0204	.7262	18.46.4	C	5 12 ,,
2	19.630	19.60	83.0	26.07	84.0	.0194	.7276	18.47.1	C	6 12 ,,
3	19.836	19.46	82.6	26.01	83.4	.0171	.7270	18.47.2	C	7 12 ,,
4	19.699	19.56	82.3	26.12	83.1	.0187	.7282	18.47.3	C	8 12 ,,
5	20.042	19.40	82.0	26.36	82.8	.0161	.7308	18.48.8	N	9 12 ,,
6	19.973	19.40	81.8	26.42	82.4	.0161	.7315	18.49.1	N	10 12 ,,
7	20.179	19.43	81.5	26.46	82.1	.0165	.7319	18.49.1	N	11 12 ,,
8	20.042	18.94	81.0	26.44	81.8	.0085	.7313	18.49.9	N	Midnight.
9	20.179	19.21	80.7	26.50	81.5	.0119	.7324	18.49.9	L	1 12 a. m.
10	19.836	19.35	80.3	26.52	81.2	.0153	.7326	18.49.6	L	2 12 ,,
11	19.767	19.43	80.0	26.57	81.0	.0165	.7331	18.49.6	L	3 12 ,,
12	19.561	19.52	80.0	26.62	80.9	.0181	.7337	18.49.8	L	4 12 ,,
13	19.493	19.46	79.5	26.42	80.6	.0171	.7315	18.49.0	C	5 12 ,,
14	19.699	19.39	79.3	26.53	80.3	.0159	.7327	18 49.6	C	6 12 ,,
15	20.385	19.76	79.9	26.64	80.2	.0220	.7339	18.49.2	C	7 12 ,,
16	20.865	19.79	80.1	26.54	80.5	.0224	.7328	18.48.8	C	8 12 ,,
17	21.139	20.15	81.0	26.46	80.8	.0284	.7319	18.47.7	N	9 12 ,,
18	20.659	20.36	82.1	26.34	81.3	.0314	.7306	18.46.6	N	10 12 ,,
19	19.561	20.33	82.8	26.25	81.8	.0312	.7296	18.46.4	N	11 12 ,,
20	19.013	20.38	83.8	26.40	82.8	.0320	.7313	18.46.9	N	Noon.
21	19.013	20.17	84.4	26.50	83.2	.0288	.7324	18.47.7	L	1 12 p. m.
22	19.767	19.93	84.9	26.52	83.9	.0247	.7326	18.48.3	L	2 12 ,,
23	20.110	19.80	85.1	26.30	84.6	.0226	.7302	18.47.6	L	3 12 ,,
Mar. 9th-Noon.	20.316	19.76	85.0	26.13	85.0	.0220	.7283	18.47.0	L	4 12 ,,
1	19.904	19.62	84.3	26.02	84.7	.0198	.7271	18.46.8	C	5 12 ,,
2	19.904	19.60	83.0	26.10	84.0	.0194	.7280	18.47.3	C	6 12 ,,
3	19.836	19.45	82.4	26.12	83.4	.0169	.7282	18.47.6	C	7 12 ,,
4	20.247	19.35	82.0	26.27	83.0	.0153	.7298	18 48.5	C	8 12 ,,
5	20.179	19.38	81.6	26.28	82.8	.0157	.7299	18.48.4	N	9 12 ,,
6	20.042	19.41	81.2	26.32	82.4	.0162	.7304	18.48.6	N	10 12 ,,
7	20 042	19.36	81.0	26.36	82.0	.0155	.7308	18.48.8	N	11 12 ,,
8	19.973	19.25	80.5	26.38	81.7	.0126	.7310	18.49.3	N	Midnight.
9	19.973	19.38	80.2	26.46	81.2	.0157	.7319	18.49.2	L	1 12 a. m.
10	19.904	19.31	80.0	26.48	81.0	.0146	.7321	18.49.4	L	2 12 ,,
11	19.767	19.26	79.8	26.53	80.9	.0128	.7327	18.50.0	L	3 12 ,,

On the 6th, at about 19h., Deflection Observations were taken.
On the 9th, at about 21h., Dip as obtained by Observation was 18°57′9.

DAILY OBSERVATIONS FROM 9TH TO 12TH MARCH 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Mar. 9th—12	19°356	19.40	79°5	26.55	86°4	8.0161	2.7327	18°49′6	L	4 12 a. m.
13	19.630	19.38	79.0	26.49	80.3	.0157	.7323	18.49.4	C	5 12 „
14	19.287	19.50	79.0	26.70	80.3	.0178	.7346	18.50.1	C	6 12 „
15	19.973	19.72	79.5	26.75	80.1	.0214	.7351	18.49.9	C	7 12 „
16	20.876	19.90	79.9	26.61	80.2	.0243	.7336	18.48.9	C	8 12 „
17	20.316	20.24	80.7	26.36	80.5	.0298	.7308	18.47.0	N	9 12 „
18	19.424	20.47	81.9	26.22	81.2	.0337	.7293	18.45.9	N	10 12 „
19	19.356	20.54	82.8	26.26	82.0	.0347	.7297	18.45.9	N	11 12 „
20	18.875	20.58	83.5	26.22	82.7	.0353	.7293	18.45.7	N	Noon.
21	18.670	20.68	84.2	26.25	83.4	.0369	.7296	18.45.6	L	1 12 p. m.
22	18.670	20.58	84.9	26.24	84.0	.0363	.7295	18.45.8	L	2 12 „
23	19.218	20.13	84.6	26.20	85.0	.0280	.7291	18.46.6	L	3 12 „
Mar. 11th-Noon.	19.973	19.93	85.1	26.04	85.3	.0247	.7273	18.46.2	L	4 12 „
1	20.110	19.03	84.6	25.93	85.0	.0099	.7261	18.47.7	L	5 12 „
2	20.385	19.13	83.6	25.97	84.2	.0108	.7261	18.47.8	L	6 12 „
3	19.836	19.18	83.0	26.06	83.8	.0124	.7265	18.48.0	L	7 12 „
4	19.699	19.27	82.6	25.95	83.4	.0130	.7263	18.47.4	C	8 12 „
5	20.385	18.96	81.8	26.09	82.9	.0081	.7278	18.48.7	N	9 12 „
6	21.071	18.88	80.9	26.04	82.2	.0075	.7273	18.48.5	N	10 12 „
7	20.590	18.88	80.5	26.07	81.8	.0075	.7276	18.48.6	N	11 12 „
8	20.110	19.36	80.3	26.14	81.4	.0155	.7284	18.47.8	N	Midnight.
9	19.904	19.27	80.5	26.28	81.3	.0130	.7299	18.48.8	L	1 12 a. m.
10	20.179	19.20	80.0	26.27	81.0	.0118	.7298	18.48.9	L	2 12 „
11	20.042	19.33	80.0	26.32	80.8	.0149	.7304	18.48.7	L	3 12 „
12	19.630	19.27	79.7	26.32	80.5	.0130	.7304	18.49.0	L	4 12 „
13	19.836	19.19	79.0	26.61	80.3	.0126	.7336	18.50.3	C	5 12 „
14	19.561	19.37	79.3	26.66	80.1	.0157	.7341	18.50.1	C	6 12 „
15	20.385	19.42	79.3	26.51	79.9	.0165	.7325	18.49.4	C	7 12 „
16	20.933	19.73	79.8	26.42	80.0	.0214	.7315	18.48.5	C	8 12 „
17	20.728	19.87	80.6	26.21	80.3	.0238	.7292	18.47.1	N	9 12 „
18	19.699	20.54	82.0	25.93	81.0	.0347	.7261	18.44.4	N	10 12 „
19	19.150	20.57	83.0	25.90	81.9	.0353	.7258	18.44.4	N	11 12 „
20	19.081	20.40	84.0	25.98	82.0	.0345	.7266	18.44.6	N	Noon.
21	19.356	20.23	84.7	26.06	83.4	.0308	.7275	18.45.6	L	1 12 p. m
22	20.110	20.14	85.2	26.50	84.4	.0282	.7285	18.46.4	L	2 12 „
23	20.728	19.91	85.3	26.10	85.0	.0244	.7269	18.46.2	L	3 12 „
Mar. 12th-Noon.	21.071	19.72	85.1	25.96	85.3	.0214	.7264	18.46.4	L	4 12 „
1	20.385	19.68	84.9	25.76	85.4	.0206	.7242	18.45.6	C	5 12 „
2	19.767	19.59	84.0	25.69	84.7	.0181	.7234	18.45.7	C	6 12 „
3	19.630	19.44	83.5	25.77	84.0	.0167	.7243	18.46.2	C	7 12 „
4	19.767	19.46	83.1	25.83	83.6	.0171	.7256	18.46.5	C	8 12 „
5	19.699	19.48	82.8	26.00	83.1	.0173	.7269	18.47.1	N	9 12 „
6	19.630	19.52	82.5	26.04	82.9	.0181	.7273	18.47.2	N	10 12 „
7	19.561	19.50	82.2	26.16	82.5	.0177	.7286	18.47.7	N	11 12 „
8	19.699	19.54	82.0	26.16	82.2	.0183	.7286	18.47.7	N	Midnight.
9	19.836	19.56	81.9	26.18	82.0	.0187	.7288	18.47.6	L	1 12 a. m.
10	19.767	19.55	81.6	26.21	81.8	.0185	.7292	18.47.7	L	2 12 „
11	19.356	19.69	81.4	26.20	81.8	.0208	.7291	18.47.5	L	3 12 „
12	19.356	19.73	81.1	26.28	81.5	.0214	.7299	18.47.8	L	4 12 „
13	19.356	19.79	81.0	26.21	81.4	.0224	.7292	18.47.3	C	5 12 „
14	19.493	19.73	80.9	26.27	81.2	.0214	.7298	18.47.8	C	6 12 „
15	19.904	19.88	81.0	26.48	81.2	.0238	.7321	18.48.3	C	7 12 „
16	20.796	19.92	81.5	26.44	81.4	.0247	.7317	18.48.0	C	8 12 „
17	21.071	20.36	82.3	26.25	81.8	.0318	.7296	18.46.2	N	9 12 „
18	20.042	20.60	83.2	25.92	82.2	.0357	.7260	18.44.3	N	10 12 „
19	19.150	20.63	84.0	25.87	83.0	.0361	.7254	18.44.1	N	11 12 „
20	19.218	20.54	84.5	25.82	83.4	.0347	.7249	18.44.0	N	Noon.
21	19.493	20.47	85.0	25.84	84.0	.0337	.7251	18.44.3	L	1 12 p. m.
22	19.973	20.29	85.4	25.99	84.8	.0306	.7267	18.45.3	L	2 12 „
23	20.316	20.04	85.6	25.98	85.3	.0265	.7266	18.45.7	L	3 12 „

On the 12th, at about 20h., Dip as obtained by Observation was 19°03′8.

DAILY OBSERVATIONS FROM 13TH TO 16TH MARCH 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.	°									h. m.
Mar. 13th-Noon.	20°659	19.76	85°5	25.87	85°7	8.0220	2.7254	18°45'9	L	4 12 p. m.
1	20.316	19.66	84.8	25.72	85.5	.0204	.7238	18.45.6	C	5 12 „
2	20.110	19.47	83.9	25.75	85.0	.0163	.7241	18.46.2	C	6 12 „
3	20.110	19.30	82.9	25.67	84.0	.0145	.7232	18.45.9	C	7 12 „
4	20.590	19.26	82.3	25.84	83.5	.0128	.7251	18.47.0	C	8 12 „
5	20.385	19.15	81.8	25.91	83.0	.0120	.7259	18.47.4	N	9 12 „
6	20.042	19.33	81.7	25.96	82.8	.0149	.7264	18.47.1	N	10 12 „
7	20.179	19.29	81.5	26.09	82.3	.0132	.7278	18.48.0	N	11 12 „
8	20.042	19.80	81.2	26.04	82.1	.0226	.7273	18.46.5	N	Midnight.
9	20.385	19.37	81.1	26.19	82.0	.0157	.7289	18.48.0	L	1 12 a. m.
10	20.247	19.18	80.9	26.19	82.0	.0124	.7289	18.48.5	L	2 12 „
11	20.110	19.27	80.7	26.20	81.6	.0130	.7291	18.48.5	L	3 12 „
12	19.767	19.28	80.8	26.24	81.4	.0130	.7295	18.48.7	L	4 12 „
13	20.385	19.17	80.3	26.32	81.1	.0124	.7304	18.49.1	C	5 12 „
14	19.973	19.26	79.9	26.44	80.7	.0128	.7313	18.49.4	C	6 12 „
15	20.590	19.31	79.5	26.58	80.2	.0146	.7332	18.49.8	C	7 12 „
16	20.385	19.68	80.0	26.56	80.3	.0206	.7330	18.49.1	C	8 12 „
17	20.728	19.98	80.9	26.53	80.9	.0255	.7327	18.48.3	N	9 12 „
18	20.453	20.21	82.2	26.47	81.6	.0293	.7320	18.47.6	N	10 12 „
19	19.767	20.30	82.7	26.44	82.1	.0308	.7317	18.47.3	N	11 12 „
20	19.699	20.21	83.4	26.46	82.7	.0293	.7319	18.47.5	N	Noon.
21	19.973	20.00	83.9	26.35	83.4	.0259	.7307	18.47.5	L	1 12 p. m.
22	20.110	19.86	83.8	26.34	83.6	.0236	.7306	18.47.7	L	2 12 „
23	20.453	19.66	83.7	26.21	83.8	.0204	.7292	18.47.6	L	3 12 „
Mar. 15th-Noon.	20.316	19.93	84.2	25.84	84.7	.0247	.7251	18.45.4	N	4 12 „
1	19.973	19.71	83.4	25.72	84.0	.0211	.7238	18.45.5	N	5 12 „
2	20.042	19.52	82.6	25.81	83.5	.0181	.7248	18.46.3	N	6 12 „
3	20.110	19.47	82.3	25.85	83.3	.0175	.7252	18.46.4	C	7 12 „
4	20.247	19.47	82.1	25.89	83.0	.0175	.7256	18.46.6	C	8 12 „
5	20.042	19.41	82.0	25.88	82.8	.0162	.7255	18.46.8	N	9 12 „
6	20.042	19.36	81.4	25.95	82.3	.0155	.7263	18.47.0	N	10 12 „
7	20.110	19.38	81.0	26.04	82.0	.0157	.7273	18.47.4	N	11 12 „
8	19.973	19.41	81.0	26.06	81.9	.0162	.7275	18.47.5	N	Midnight.
9	19.973	19.43	80.9	26.07	81.5	.0165	.7276	18.47.4	L	1 12 a. m.
10	20.110	19.38	80.7	26.12	81.4	.0157	.7282	18.47.7	L	2 12 „
11	19.904	19.41	80.5	26.13	81.0	.0162	.7283	18.47.8	L	3 12 „
12	19.973	19.38	80.2	26.18	80.7	.0157	.7288	18.48.0	L	4 12 „
13	19.527	19.42	79.8	26.14	80.6	.0165	.7284	18.47.7	C	5 12 „
14	20.316	19.42	79.0	25.94	80.1	.0165	.7262	18.46.8	C	6 12 „
15	20.350	19.54	78.8	26.00	79.9	.0183	.7269	18.47.0	C	7 12 „
16	20.179	19.83	79.3	26.00	80.0	.0230	.7269	18.46.3	C	8 12 „
17	20.316	20.15	80.8	25.91	80.9	.0284	.7259	18.45.4	N	9 12 „
18	20.659	20.16	82.0	25.85	81.8	.0286	.7252	18.44.9	N	10 12 „
19	20.385	20.36	83.5	25.58	82.8	.0318	.7222	18.40.3	N	11 12 „
20	19.630	20.40	84.5	25.34	83.6	.0325	.7196	18.42.2	N	Noon.
21	19.150	20.51	85.0	25.41	84.2	.0342	.7204	18.42.4	L	1 12 p. m.
22	19.630	20.33	85.0	25.55	84.9	.0312	.7219	18.43.4	L	2 12 „
23	19.699	20.24	85.1	25.50	85.0	.0298	.7217	18.43.5	L	3 12 „
Mar. 16th-Noon.	19.630	20.06	84.8	25.47	85.1	.0269	.7210	18.43.6	L	4 12 „
1	19.218	20.00	84.4	25.39	85.0	.0259	.7201	18.43.3	C	5 12 „
2	19.150	19.88	83.6	25.65	84.4	.0238	.7230	18.44.8	C	6 12 „
3	19.150	19.85	83.2	25.65	84.0	.0234	.7230	18.44.9	C	7 12 „
4	19.561	19.78	83.0	25.68	83.9	.0222	.7233	18.45.1	C	8 12 „
5	19.287	19.79	82.8	25.84	83.6	.0224	.7251	18.45.8	N	9 12 „
6	19.356	19.75	81.8	25.82	83.2	.0218	.7249	18.45.7	N	10 12 „
7	20.042	19.52	81.2	25.90	82.5	.0179	.7258	18.46.9	N	11 12 „
8	20.042	19.46	81.0	25.97	82.3	.0171	.7265	18.47.0	N	Midnight.
9	19.767	19.61	81.3	26.03	82.2	.0195	.7272	18.46.8	L	1 12 a. m.
10	19.699	19.59	81.7	26.06	82.0	.0191	.7275	18.47.1	L	2 12 „
11	19.356	19.56	81.6	26.05	81.7	.0187	.7274	18.47.0	L	3 12 „

On the 13th, at about 19h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 16TH TO 18TH MARCH 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
MAR. 16TH—12	19·356	19.64	81·3	26.13	81·6	8.0200	2.7283	18°47·3	L	4 12 a. m.
13	19.699	19.71	80.9	26.03	81.6	.0221	.7274	18.46.6	C	5 12 ,,
14	19.733	19.52	80.3	25.64	81.3	.0179	.7229	18.45.5	C	6 12 ,,
15	20.933	19.58	79.9	25.77	80.9	.0189	.7243	18.45.9	C	7 12 ,,
16	21.208	20.04	80.6	25.76	81.2	.0265	.7242	18.44.8	C	8 12 ,,
17	20.865	20.04	81.7	25.65	81.8	.0265	.7230	18.44.5	N	9 12 ,,
18	20.865	20.42	83.0	25.58	82.7	.0329	.7222	18.43.2	N	10 12 ,,
19	19.973	20.53	84.7	25.31	83.8	.0345	.7193	18.41.8	N	11 12 ,,
20	19.561	20.52	85.6	25.34	84.6	.0345	.7196	18.41.9	N	Noon.
21	19.630	20.64	87.3	25.40	86.0	.0373	.7204	18.42.0	L	1 12 p. m.
22	19.973	20.41	87.7	25.44	86.8	.0326	.7207	18.42.7	L	2 12 ,,
23	20.659	20.14	87.7	25.30	87.2	.0282	.7192	18.42.7	L	3 12 ,,
MAR. 17TH-Noon.	20.659	19.87	87.3	25·04	87.4	.0238	.7163	18.42.1	L	4 12 ,,
1	19.836	19.74	86.5	24.84	87.3	.0216	.7141	18.41.5	C	5 12 ,,
2	19.561	19.71	85.7	24.95	86.6	.0211	.7153	18.42.2	C	6 12 ,,
3	20.042	19.56	85.2	25.08	86.0	.0187	.7167	18.42.9	C	7 12 ,,
4	20.042	19.51	84.9	24.97	85.9	.0178	.7155	18.42.7	C	8 12 ,,
5	20.453	19.53	84.4	25.06	85.3	.0181	.7165	18.43.0	N	9 12 ,,
6	20.796	19.48	83.8	25.05	85.0	.0173	.7164	18.43.0	N	10 12 ,,
7	20.865	18.97	83.9	25.19	84.8	.0091	.7179	18.44.6	N	11 12 ,,
8	20.728	19.04	83.6	25.13	84.2	.0101	.7173	18.44.3	N	Midnight.
9	19.973	19.82	83.2	25.07	83.8	.0230	.7166	18.42·3	L	1 12 a. m.
10	20.590	19.39	82.9	25.26	83.7	.0159	.7187	18.44.1	L	2 12 ,,
11	20.522	19.17	82.7	25.25	83.5	.0124	.7186	18.44.5	L	3 12 ,,
12	20.453	19.21	82.3	25.32	83.2	.0119	.7194	18.44.8	L	4 12 ,,
13	20.247	19.27	82.0	25.31	83.0	.0130	.7193	18.44.7	C	5 12 ,,
14	20.110	19.33	81.9	25.29	82.9	.0149	.7190	18.44.3	C	6 12 ,,
15	20.522	19.35	81.9	25.49	82.7	.0153	.7212	18.45.1	C	7 12 ,,
16	20.590	19.67	82.6	25.34	83.0	.0206	.7196	18.43.8	C	8 12 ,,
17	20.865	19.97	83.2	25.30	83.2	.0255	.7192	18.42.9	N	9 12 ,,
18	20.385	20.25	84.1	25.22	84.0	.0300	.7183	18.42.1	N	10 12 ,,
19	19.218	20.27	85.8	25.05	85.8	.0304	.7164	18.41.3	N	11 12 ,,
20	19.493	20.24	88.4	25.04	88.1	.0290	.7163	18.41.4	N	Noon.
21	19.013	20.31	90.4	24.90	89.4	.0309	.7148	18.40.7	L	1 12 p. m.
22	19.356	20.44	92.4	24.69	90.3	.0331	.7124	18.39.4	L	2 12 ,,
23	19.973	19.99	91.6	24.63	93.3	.0257	.7118	18.40.1	L	3 12 ,,
MAR. 18TH-Noon.	20.179	19.63	89.8	24.48	90.0	.0198	.7090	18.39.8	L	4 12 ,,
1	20.385	19.36	88.7	24.72	89.6	.0155	.7128	18.41.8	C	5 12 ,,
2	20.453	19.02	87.4	24.56	88.5	.0099	.7110	18.40.9	C	6 12 ,,
3	20.316	19.50	86.8	24.58	88.0	.0177	.7112	18.41.9	C	7 12 ,,
4	19.904	19.23	86.2	24.48	87.4	.0122	.7101	18.41.2	C	8 12 ,,
5	20.385	19.09	85.8	24.78	87.0	.0119	.7134	18.42.5	N	9 12 ,,
6	19.973	19.56	85.6	24.71	86.5	.0187	.7127	18.41.4	N	10 12 ,,
7	20.796	19.23	84.8	24.89	86.0	.0122	.7146	18.43.0	N	11 12 ,,
8	21.276	19.43	83.8	24.91	85.2	.0167	.7149	18.42.5	N	Midnight.
9	21.619	19.07	83.3	25.00	85.0	.0107	.7159	18.42.1	L	1 12 a. m.
10	19.767	19.79	84.0	25.07	84.7	.0224	.7166	18.42.4	L	2 12 ,,
11	20.522	19.55	83.9	25.08	84.4	.0185	.7167	18.42.9	L	3 12 ,,
12	20.522	19.37	83.7	25.14	84.3	.0157	.7174	18.43.5	L	4 12 ,,
13	20.110	19.47	83.0	25.17	84.0	.0163	.7177	18.43.9	G	5 12 ,,
14	19.836	19.53	82.6	25.31	83.6	.0181	.7193	18.44.1	G	6 12 ,,
15	20.728	19.48	82.7	25.31	83.5	.0173	.7193	18.44.2	G	7 12 ,,
16	21.276	19.65	83.2	25.24	83.9	.0242	.7185	18.43.0	G	8 12 ,,
17	21.276	19.96	84·3	25.11	84.2	.0243	.7171	18.42.4	N	9 12 ,,
18	20.522	20.25	85.4	24.86	85.4	.0300	.7143	18.40.6	N	10 12 ,,
19	19.767	20.33	87.3	24.71	87.0	.0312	.7127	18.39.9	N	11 12 ,,
20	19.424	20.36	89.0	24.79	88.1	.0318	.7135	18.40.0	N	Noon.
21	19.699	20.28	90.0	24.81	88.7	.0296	.7138	18.40.8	L	1 12 p. m.
22	19.904	20.16	90.1	24.80	89.3	.0286	.7137	18.40.5	L	2 12 ,,
23	20.659	19.95	90.0	24.78	89.9	.0251	.7134	18.40.8	L	3 12 ,,

On the 16th, at about 19h., Dip as obtained by Observation was 19°06'5.

DAILY OBSERVATIONS FROM 19TH TO 22ND MARCH 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Mar. 19th-Noon.	20'110	19.98	90°0	24.58	90°0	8.0255	2.7112	18°39'8	L	4 12 p. m.
1	19.699	19.77	88.8	24.48	89.5	.0222	.7101	18.39.9	G	5 12 „
2	20.385	19.33	87.5	24.71	88.5	.0149	.7127	18.41.1	G	6 12 „
3	20.728	19.12	86.9	24.87	88.0	.0116	.7144	18.42.9	G	7 12 „
4	20.179	19.53	86.5	24.75	87.7	.0181	.7131	18.41.7	G	8 12 „
5	19.973	19.41	85.9	24.85	87.1	.0162	.7142	18.42.3	N	9 12 „
6	20.110	19.49	85.3	24.92	86.7	.0175	.7150	18.42.5	N	10 12 „
7	19.973	19.38	84.8	25.06	86.0	.0157	.7165	18.43.2	N	11 12 „
8	19.904	19.24	84.3	24.93	85.3	.0124	.7151	18.43.2	N	Midnight.
9	19.493	19.34	84.0	25.15	85.1	.0151	.7175	18.43.7	L	1 12 a. m.
10	19.904	19.42	83.3	25.28	84.7	.0165	.7189	18.44.0	L	2 12 „
11	19.630	19.60	83.8	25.24	84.6	.0194	.7185	18.43.6	L	3 12 „
12	19.767	19.43	83.0	25.22	84.0	.0165	.7183	18.43.8	L	4 12 „
13	19.630	19.54	82.9	25.38	83.7	.0183	.7200	18.44.4	G	5 12 „
14	19.699	19.39	82.5	25.40	83.2	.0159	.7203	18.44.7	G	6 12 „
15	19.973	19.58	82.7	25.34	83.0	.0189	.7196	18.44.0	G	7 12 „
16	21.071	19.75	83.2	25.21	83.5	.0218	.7182	18.43.0	G	8 12 „
17	20.796	20.01	84.4	25.02	84.5	.0260	.7161	18.41.7	N	9 12 „
18	19.836	20.65	86.4	24.75	85.8	.0365	.7131	18.39.2	N	10 12 „
19	19.699	20.27	87.3	24.76	86.6	.0304	.7132	18.40.1	N	11 12 „
20	19.356	20.46	88.3	24.70	87.2	.0335	.7126	18.39.4	N	Noon.
21	19.561	20.40	88.8	24.79	87.8	.0325	.7135	18.39.9	L	1 12 p. m.
22	19.767	20.23	89.0	24.75	88.2	.0296	.7131	18.40.1	L	2 12 „
23	19.973	20.11	89.0	24.80	88.9	.0297	.7137	18.40.7	L	3 12 „
Mar. 20th-Noon.	20.110	19.75	89.1	24.59	89.1	.0218	.7113	18.40.4	L	4 12 „
1	20.042	19.77	88.6	24.58	88.6	.0222	.7112	18.40.3	G	5 12 „
2	19.970	19.66	87.8	24.74	88.0	.0204	.7130	18.41.4	G	6 12 „
3	19.493	19.50	86.9	24.70	87.3	.0177	.7126	18.41.5	G	7 12 „
4	19.630	19.69	86.5	24.80	86.5	.0208	.7137	18.41.6	G	8 12 „
5	20.042	19.38	86.0	24.88	86.0	.0157	.7145	18.42.5	N	9 12 „
6	20.453	19.41	85.5	24.97	85.5	.0162	.7155	18.42.9	N	10 12 „
7	20.042	19.49	85.0	24.96	85.0	.0175	.7154	18.42.6	N	11 12 „
8	20.316	19.49	84.5	25.13	84.2	.0175	.7173	18.43.3	N	Midnight.
9	20.247	19.53	84.2	25.20	84.0	.0181	.7181	18.43.6	L	1 12 a. m.
10	20.179	19.58	83.9	25.26	83.6	.0189	.7187	18.43.7	L	2 12 „
11	19.836	19.70	83.9	25.33	83.4	.0210	.7195	18.43.8	L	3 12 „
12	19.973	19.58	83.7	25.34	83.4	.0189	.7196	18.44.0	L	4 12 „
13	20.110	19.61	83.5	25.40	83.3	.0195	.7203	18.44.2	G	5 12 „
14	20.042	19.52	83.5	25.40	83.2	.0181	.7203	18.44.5	G	6 12 „
15	20.385	19.61	82.9	25.25	82.2	.0195	.7186	18.43.5	G	7 12 „
16	21.071	19.74	82.7	25.47	82.2	.0216	.7210	18.44.2	G	8 12 „
17	20.659	20.18	83.6	25.37	82.7	.0280	.7200	18.43.1	N	9 12 „
18	20.453	20.52	84.9	25.22	83.9	.0345	.7183	18.41.4	N	10 12 „
19	19.767	20.59	86.0	25.07	85.0	.0355	.7166	18.40.6	N	11 12 „
20	19.013	20.60	87.0	25.00	86.0	.0357	.7159	18.40.4	N	Noon.
21	19.287	20.27	87.9	25.07	86.9	.0304	.7166	18.41.3	L	1 12 p. m.
22	20.042	20.33	88.1	25.07	87.3	.0312	.7166	18.41.3	L	2 12 „
23	20.590	20.19	88.3	25.02	87.9	.0290	.7161	18.41.3	L	3 12 „
Mar. 22nd-Noon.	20.316	19.94	87.3	24.56	88.5	.0249	.7110	18.39.9	C	4 12 „
1	19.424	19.79	86.8	24.34	87.9	.0224	.7086	18.39.3	C	5 12 „
2	19.424	19.87	86.2	24.48	87.5	.0238	.7101	18.39.7	C	6 12 „
3	19.699	19.70	86.0	24.51	87.1	.0210	.7105	18.40.3	C	7 12 „
4	19.493	19.61	86.0	24.40	86.9	.0195	.7093	18.39.9	C	8 12 „
5	20.110	19.74	85.7	24.42	86.5	.0216	.7095	18.39.7	N	9 12 „
6	19.973	19.58	84.7	24.40	86.0	.0189	.7093	18.40.0	N	10 12 „
7	20.042	19.32	85.0	24.49	85.8	.0149	.7102	18.40.8	N	11 12 „
8	20.316	19.40	84.6	24.58	85.3	.0161	.7112	18.41.1	N	Midnight.
9	20.316	19.40	84.1	24.58	85.2	.0161	.7112	18.41.1	L	1 12 a. m.
10	19.767	19.67	84.0	24.63	84.9	.0206	.7118	18.40.8	L	2 12 „
11	19.767	19.61	83.7	24.71	84.6	.0195	.7127	18.41.3	L	3 12 „

On the 19th, at about 19h., Dip as obtained by Observation was 18°58'4.
On the 20th, at about 19h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 22ND TO 24TH MARCH 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
MAR. 22ND—12	19·806	19.50	83°1	24.78	84°3	8.0177	2.7134	18°41′8	L	4 12 a. m.
13	20.042	19.44	82.5	24.72	84.0	.0157	.7128	18.41.8	C	5 12 „
14	20.590	19.44	82.4	24.86	83.7	.0157	.7143	18·42.4	C	6 12 „
15	20.659	19.57	82.7	24.80	83.4	.0189	.7137	18.41.8	C	7 12 „
16	20.865	19.90	83.3	24.61	83.7	.0243	.7116	18.40.3	C	8 12 „
17	20.179	20.18	84.3	24.52	84.0	.0288	.7106	18.39.2	N	9 12 „
18	19.356	20.44	85.3	24.39	85.0	.0331	.7092	18.38.1	N	10 12 „
19	18.464	20.15	86.0	24.42	85.8	.0284	.7094	18.38.9	N	11 12 „
20	17.984	20.29	87.1	24.55	86.2	.0306	.7109	18.39.1	N	Noon.
21	18.601	20.32	87.8	24.60	87.3	.0312	.7115	18.39.4	L	1 12 p. m.
22	19.904	20.22	88.7	24.75	88.3	.0296	.7131	18.40.1	L	2 12 „
23	21.208	19.89	89.0	24.65	89.0	.0240	.7120	18.40.5	L	3 12 „
MAR. 23RD-Noon.	21.002	19.84	88.9	24.33	89.3	.0232	.7085	18.39.1	L	4 12 „
1	20.042	19.84	88.5	24.09	89.5	.0232	.7058	18.38.2	C	5 12 „
2	19.493	19.82	87.8	24.12	88.9	.0228	.7062	18.38.2	C	6 12 „
3	19.424	19.66	87.4	24.15	88.3	.0204	.7065	18.38.8	C	7 12 „
4	19.424	19.64	86.6	24.48	87.5	.0200	.7101	18.40.2	C	8 12 „
5	19.630	19.35	85.5	24.08	86.7	.0153	.7112	18.41.2	N	9 12 „
6	19.904	19.40	85.0	24.68	86.0	.0161	.7123	18.41.6	N	10 12 „
7	19.836	19.39	84.7	24.78	86.0	.0159	.7134	18.42.0	N	11 12 „
8	19.836	19.35	84.3	24.87	85.5	.0153	.7144	18.42.5	N	Midnight.
9	19.973	19.56	83.9	24.90	85.0	.0187	.7148	18.42.2	L	1 12 a. m.
10	19.561	19.48	83.4	24.96	84.7	.0176	.7154	18.42.7	L	2 12 „
11	19.767	19.38	82.9	25.04	84.2	.0157	.7163	18.43.1	L	3 12 „
12	19.836	19.28	82.0	25.05	83.7	.0130	.7164	18.43.5	L	4 12 „
13	19.801	19.27	81.3	25.08	83.2	.0130	.7167	18.43.7	C	5 12 „
14	20.247	19.48	81.2	25.21	83.0	.0173	.7182	18.43.7	C	6 12 „
15	20.933	19.61	81.5	25.39	83.0	.0195	.7201	18.44.1	C	7 12 „
16	22.032	20.05	82.3	25.22	83.2	.0267	.7183	18.42.5	C	8 12 „
17	20.933	20.56	84.0	24.94	84.5	.0351	.7152	18.40.2	N	9 12 „
18	19.561	21.09	86.0	24.76	85.4	.0427	.7132	18.38.4	N	10 12 „
19	18.121	21.17	87.3	24.67	86.2	.0451	.7122	18.37.7	N	11 12 „
20	17.160	21.06	88.1	24.71	87.1	.0433	.7127	18.38.3	N	Noon.
21	17.503	20.77	88.7	24.69	88.0	.0386	.7124	18.38.6	L	1 12 p. m.
22	18.189	20.54	89.1	24.96	88.8	.0347	.7154	18.40.3	L	2 12 „
23	20.110	20.32	89.3	24.93	89.3	.0312	.7151	18.40.8	L	3 12 „
MAR. 24TH-Noon.	20.590	20.21	89.1	24.72	89.4	.0293	.7128	18.40.1	L	4 12 „
1	20.385	20.00	88.5	24.53	89.2	.0259	.7107	18.39.7	C	5 12 „
2	19.836	19.83	87.4	24.45	88.4	.0230	.7098	18.39.7	C	6 12 „
3	19.493	19.68	86.9	24.52	88.0	.0206	.7106	18.40.3	C	7 12 „
4	19.699	19.63	86.3	24.67	87.2	.0198	.7122	18.41.0	C	8 12 „
5	19.904	19.49	85.4	24.68	86.6	.0175	.7123	18.41.4	N	9 12 „
6	19.904	19.51	85.0	24.72	86.0	.0178	.7128	18.41.6	N	10 12 „
7	19.904	19.47	84.6	24.79	85.8	.0173	.7135	18.42.0	N	11 12 „
8	20.110	19.55	84.2	24.91	85.2	.0185	.7149	18.42.2	N	Midnight.
9	20.042	19.49	83.3	24.98	84.8	.0175	.7156	18.42.7	L	1 12 a. m.
10	20.247	19.53	83.0	25.07	84.4	.0181	.7166	18.43.0	L	2 12 „
11	20.179	19.56	82.9	25.07	84.0	.0189	.7166	18.42.8	L	3 12 „
12	20.316	19.57	82.5	24.97	83.8	.0189	.7155	18.42.5	L	4 12 „
13	20.340	19.44	81.9	24.93	83.5	.0167	.7154	18.42.6	C	5 12 „
14	20.796	19.48	81.7	25.06	83.3	.0173	.7165	18.43.1	C	6 12 „
15	22.408	19.56	81.6	25.19	82.8	.0187	.7179	18.43.3	C	7 12 „
16	23.060	19.98	82.5	25.00	83.2	.0255	7159	18.41.7	C	8 12 „
17	22.718	20.41	83.8	24.72	84.0	.0326	.7128	18.39.6	N	9 12 „
18	21.895	20.88	85.2	24.55	85.0	.0402	.7109	18.37.9	N	10 12 „
19	21.276	21.07	86.5	24.37	85.8	.0435	.7089	18.36.6	N	11 12 „
20	20.796	20.92	87.5	24.40	86.6	.0411	.7093	18.37.2	N	Noon.
21	20.385	20.69	88.0	24.44	87.4	.0371	.7097	18.37.9	L	1 12 p. m.
22	20.453	20.41	88.0	24.65	87.8	.0326	.7120	18.39.3	L	2 12 „
23	20.385	20.20	88.1	24.64	88.3	.0292	.7119	18.39.7	L	3 12 „

On the 23rd, at about 19h., Dip as obtained by Observation was 19°00 0.

DAILY OBSERVATIONS FROM 25TH TO 27TH MARCH 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.								°		h. m.
Mar. 25th-Noon.	20·316	20·10	88·1	24.50	88·4	8·0276	2·7104	18°39′3	L	4 12 p. m.
1	19.767	20.05	87.7	24.35	88.4	.0267	.7087	18.38.8	C	5 12 „
2	19·630	19·88	86.8	24.41	87.7	.0238	·7094	18.39.4	C	6 12 „
3	19.356	19.73	86·1	24.44	87.2	.0214	.7097	18.40.0	C	7 12 „
4	19.218	19·80	85.8	24.35	86.7	.0226	·7089	18.39.3	C	8 12 „
5	19.973	19.55	85.0	24.38	86.0	.0185	·7090	18.39.9	N	9 12 „
6	20·042	19.61	84.7	24.48	85.9	.0195	.7101	18.40.2	N	10 12 „
7	19·973	19.54	84.2	24.56	85.4	.0183	·7110	18.40.9	N	11 12 „
8	19.904	19.52	83.9	24.63	84.9	.0181	·7118	18.41.2	N	Midnight.
9	19.769	19.56	83.6	24.64	84.5	.0187	·7119	18.41.0	L	1 12 a. m.
10	19.699	19.52	83.0	24.66	84.0	·0181	.7121	18.41.3	L	2 12 „
11	19.973	19.56	83.0	24.77	84.0	.0187	.7133	18.41.6	L	3 12 „
12	19.493	19·75	83.0	24.83	83.8	.0218	.7140	18.41.5	L	4 12 „
13	19.767	19.68	82.9	25.10	83.8	.0206	.7170	18.42.8	C	5 12 „
14	19.973	19.68	82·8	25.23	83.8	.0206	.7184	18.43.3	C	6 12 „
15	21·482	19.64	82.9	25.31	83.6	.0200	.7193	18.43.8	C	7 12 „
16	21.688	19.92	83.2	25.07	83.7	.0247	.7166	18.42.0	C	8 12 „
17	21.139	20.38	84.3	24.92	84.0	.0320	.7150	18.40.6	N	9 12 „
18	20·316	20.76	85.6	24.75	84.9	.0384	.7131	18.39.1	N	10 12 „
19	19.699	20.85	86.3	24.67	85.6	.0398	.7122	18.38.4	N	11 12 „
20	19·218	20.79	86·8	24.60	86.1	.0388	.7115	18.38.3	N	Noon.
21	19·424	20.54	86.9	24.66	86.7	.0347	.7121	18.39.0	L	1 12 p. m.
22	20.247	20.31	87.1	24.76	87.1	.0309	.7132	18.40.0	L	2 12 „
23	20.522	20.10	87.2	24.68	87.5	·0276	.7123	18.41.1	L	3 12 „
Mar. 26th-Noon.	20.110	20·02	87.0	24.55	87.5	.0263	.7109	18.39.7	L	4 12 „
1	20.042	19.84	86.0	24.51	87.0	.0232	.7105	18.40.0	C	5 12 „
2	19·561	19.79	85.7	24.61	86.5	.0224	.7116	18.40.5	C	6 12 „
3	19.561	19.66	84.6	24.61	85·8	.0204	.7116	18.40.8	C	7 12 „
4	19.356	19.63	84.4	24.61	85.3	.0198	.7116	18.40.8	C	8 12 „
5	19.699	19.52	84.0	24.64	84·8	.0181	.7109	18.41.2	N	9 12 „
6	19·630	19.68	83.9	24.94	84.7	·0206	.7152	18.42.1	N	10 12 „
7	20.110	19.55	83.5	24.88	84.3	.0185	.7145	18.42.1	N	11 12 „
8	19.699	19.68	83.4	24.87	84.1	.0206	.7144	18.41.8	N	Midnight.
9	19·904	19.57	82.9	24.96	83.9	.0189	.7154	18.42.4	L	1 12 a. m.
10	19.630	19.55	82.6	25.17	83.7	·0185	.7171	18.43.3	L	2 12 „
11	19·630	19.55	82·5	25.23	83·5	.0185	.7184	18.43.5	L	3 12 „
12	19.767	19.42	81.9	25.28	83.3	·0175	.7189	18.43.9	L	4 12 „
13	19.836	19.39	81.3	25.17	82.9	.0159	.7177	18.43.7	C	5 12 „
14	20·179	19.54	80.8	25.23	82.5	·0183	.7184	18.43.7	C	6 12 „
15	21.449	19.71	80.9	25.34	82.2	·0211	.7196	18.43.8	C	7 12 „
16	21.895	19.93	81.7	25.28	82.5	·0247	.7189	18.42.9	C	8 12 „
17	21·415	20·62	83.0	25.17	83.1	.0261	.7177	18.42.4	N	9 12 „
18	21·276	20.86	84.0	25.12	84.0	·0300	·7172	18.41.6	N	10 12 „
19	20.385	21.06	85.5	24.85	85·0	.0433	·7182	18.38.8	N	11 12 „
20	19.630	21.02	86.2	24.85	85.6	·0427	.7182	18.38.8	N	Noon.
21	19.493	20.74	86.0	24.89	85.7	.0380	.7146	18·39.7	L	1 12 p. m.
22	20·110	20.54	86.1	24.98	86.0	.0363	.7157	18.40.4	L	2 12 „
23	20.728	20·30	86.0	25.01	86.3	.0308	.7160	18.41.1	L	3 12 „
Mar. 27th-Noon.	21·002	20.06	85.7	24.92	86.5	.0269	.7150	18.41.3	L	4 12 „
1	20.385	19.90	85.3	24.69	86·1	.0243	.7124	18·40.6	C	5 12 „
2	19.836	19.83	84.8	24.62	85.8	.0230	.7117	18.40.5	C	6 12 „
3	19.150	19.82	84.5	24.56	85.5	.0230	.7110	18.40.2	C	7 12 „
4	19.218	19.70	84.1	24.96	85.2	·0210	.7154	18.42.2	C	8 12 „
5	19.630	19.66	83.9	25.11	85.0	.0204	.7171	18.42.9	N	9 12 „
6	19.630	19.68	83.7	25.14	84·8	.0206	.7174	18.42.9	N	10 12 „
7	19.493	19.70	83.8	25.19	84.5	·0210	.7179	18.43.1	N	11 12 „
8	19.767	19.65	83·5	25.22	84.0	.0202	.7183	18.43.4	N	Midnight.
9	19·904	19.56	83.0	25.23	83.9	.0187	.7184	18.43.5	L	1 12 a. m.
10	19.699	19.61	82.8	25.27	83·7	.0195	.7188	18.43.6	L	2 12 „
11	19·630	19.60	82.5	25.26	83·4	·0194	.7187	18.43.7	L	3 12 „

On the 26th, at about 19h., Dip as obtained by Observation was 19°00′9.

DAILY OBSERVATIONS FROM 27TH TO 30TH MARCH 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
MAR. 27TH—12	19·699	19.56	82·3	25.32	83·2	8.0187	2.7194	18°43'9	L	4 12 a. m.
13	20.042	19.57	82.0	25.29	83.0	.0189	.7190	18.43.8	C	5 12 „
14	20·385	19.42	81.1	25.23	82.7	.0165	.7185	18.43.9	C	6 12 „
15	20.728	19.54	81.0	25.35	82.2	.0183	.7197	18.44.3	C	7 12 „
16	20.522	20.06	81.9	25.27	82.5	.0269	.7188	18.42.7	C	8 12 „
17	20.316	20.45	82.8	25.15	83.0	.0333	.7175	18.41.4	N	9 12 „
18	20.247	20.97	84.4	25.06	84.0	.0419	.7165	18.39.8	N	10 12 „
19	19.699	21.10	85.3	24.92	84.8	.0439	.7150	18.39.0	N	11 21 „
20	19.150	21.13	86.5	24.92	85.8	.0443	.7150	18.39.1	N	Noon.
21	19.287	20·93	87.6	24.95	86.6	.0411	.7153	18.39.6	L	1 12 p. m.
22	19.630	20.61	87.8	24.96	87.1	.0358	.7150	18.40.2	L	2 12 „
23	19.699	20.41	87.9	24.95	87.6	.0326	.7153	18.40.6	L	3 12 „
MAR. 29TH-Noon.	20.659	19.95	88.3	24.64	88.8	.0251	.7119	18.40.2	L	4 12 „
1	20.659	19.65	87.4	24.46	88.0	.0202	.7099	18.40.1	L	5 12 „
2	20.042	19.61	86.7	24.35	87.4	.0195	.7087	18.39.7	L	6 12 „
3	19.424	19.65	86.2	24.35	87.1	.0202	.7087	18.39.7	L	7 12 „
4	19.561	19.07	85.8	24.44	86.6	.0189	.7097	18.40.2	L	8 12 „
5	19.561	19.59	85.4	24.43	86.3	.0191	.7096	18.40.1	C	9 12 „
6	19.699	19.64	85.1	24.55	85.9	.0200	.7109	18.40.5	C	10 12 „
7	19.836	19.62	84.9	24.56	85.5	·0196	.7110	18.40.6	C	11 12 „
8	20.042	19.71	84.8	24.66	85.3	.0211	.7121	18.40.9	C	Midnight.
9	19.699	19.71	84.5	24.67	85.0	.0211	.7122	18.40.9	N	1 12 a. m.
10	19.973	19.83	84.5	24.75	85.0	.0230	.7131	18.41.0	N	2 12 „
11	19.973	19.79	84.2	24.74	84.6	.0224	.7130	18.41.1	N	3 12 „
12	19.699	19.79	83.8	24.76	84.5	.0224	.7132	18.41.1	N	4 12 „
13	19.630	19.74	83·6	24.79	84.3	.0216	.7136	18.41.3	L	5 12 „
14	19.699	19.64	83.4	24.84	84.0	.0200	.7141	18.41.8	L	6 12 „
15	20.110	19.69	83.5	24.87	84.0	.0208	.7144	18.41.8	L	7 12 „
16	20.590	19.98	84.0	24.85	84.2	.0255	.7142	18.41·0	L	8 12 „
17	21.895	20.02	84.9	25.01	84.9	.0263	.7160	18.41.7	C	9 12 „
18	21.963	20.30	85.5	24.76	85.3	.0309	.7132	18.40.0	C	10 12 „
19	21.688	20.34	86.2	24.63	86.0	.0314	.7118	18.39.5	C	11 12 „
20	21.071	20.30	87.3	24.51	86.4	.0309	.7105	18.39.0	C	Noon.
21	20·590	20.26	87.7	24.53	87.0	.0302	.7107	18.40.2	N	1 12 p. m.
22	19.904	20.08	87.3	24.50	87.2	.0271	.7104	18.39.4	N	2 12 „
23	19.973	19.95	87.3	24.52	87.8	.0251	.7106	18.39.7	N	3 12 „
MAR. 30TH-Noon.	19.973	19.86	87.5	24.36	88.0	.0236	.7088	18.39.1	N	4 12 „
1	19.630	19.81	87.4	24.21	87.8	.0227	.7072	18.38.6	L	5 12 „
2	19.356	19.77	87.0	24.19	87.5	.0222	.7069	18.38.6	L	6 12 „
3	19.150	19.56	86.5	24.20	87.2	.0187	.7071	18.39.1	L	7 12 „
4	19.561	19.49	86.2	24.33	86.8	.0175	.7085	18.39.9	L	8 12 „
5	19.630	19.49	85.8	24.44	86.2	.0175	.7097	18.40.4	C	9 12 „
6	20.042	19.17	85.3	24.48	85.9	.0124	.7101	18.41.2	C	10 12 „
7	20.110	19.18	84.5	24.48	85.4	.0124	.7101	18.41.2	C	11 12 „
8	19·767	19.51	84.1	24.53	85·0	·0178	.7107	18.40.8	C	Midnight.
9	19.767	19.42	84.0	24.57	84.9	.0165	.7111	18.41.0	N	1 12 a. m.
10	19.767	19.30	83.6	24.52	84.4	.0145	.7106	18.41.1	N	2 12 „
11	19.424	19.29	83.2	24.61	84.2	.0132	.7116	18.41.7	N	3 12 „
12	19.630	19.38	82.9	24.70	84.0	.0157	.7126	18.41.7	N	4 12 „
13	19.904	19.51	83.0	24.67	84.0	.0178	.7122	18.41.3	L	5 12 „
14	19.973	19.60	83.0	24.79	83.8	.0194	.7135	18.41.7	L	6 12 „
15	20.933	19.56	83.1	24.81	83.6	.0187	.7138	18.41.8	L	7 12 „
16	21.482	19.85	83.7	24.68	83.9	.0234	.7123	18.40.7	L	8 12 „
17	21.826	20.32	84.7	24.54	84.5	.0312	.7108	18.39.1	C	9 12 „
18	21.826	20.61	85.5	24.37	85.5	.0358	.7089	18.37.6	C	10 12 „
19	21.002	20·77	86.6	24.19	86.4	.0386	.7069	18.36.4	C	11 12 „
20	19·699	20.94	87.8	24.12	87.5	.0413	.7062	18.35.9	C	Noon.
21	19.493	20.85	88.8	24.12	88.0	.0398	.7062	18.36.0	N	1 12 p. m.
22	19.767	20.57	89.0	24.16	88.7	.0353	.7066	18.36.9	N	2 12 „
23	19.904	20.38	89.0	24.11	89.0	.0328	.7061	18.37.0	N	3 12 „

On the 27th, at about 19h., Deflection Observations were taken.
On the 30th, at about 19h., Dip as obtained by Observation was 19°00'6.

DAILY OBSERVATIONS FROM 31ST MARCH TO 2ND APRIL 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observer.	Date. Bombay Civil Time. 1857.
h.										h. m.
Mar. 31st-Noon.	19°04	20.11	88°5	23.97	89°0	8.0277	2.7045	18°37′1	N	4 12 p. m.
1	19.013	20.13	87.7	23.83	88.6	.0280	.7030	18.36.2	C	5 12 „
2	19.287	19.80	86.5	23.90	87.7	.0228	.7038	18.37.4	C	6 12 „
3	19.287	19.60	85.9	23.88	87.0	.0194	.7035	18.37.8	C	7 12 „
4	19.356	19.68	85.7	24.00	86.6	.0206	.7049	18.38.1	C	8 12 „
5	19.424	19.72	85.4	24.07	86.6	.0214	.7056	18.38.4	L	9 12 „
6	19.493	19.71	85.0	24.14	86.3	.0211	.7064	18.38.6	L	10 12 „
7	19.699	19.80	84.5	24.20	86.0	.0226	.7071	18.38.6	L	11 12 „
8	19.767	19.66	84.1	24.29	85.6	.0204	.7080	18.39.4	L	Midnight.
9	19.699	19.55	83.8	24.30	85.0	.0185	.7082	18.39.5	N	1 12 a. m.
10	19.973	19.52	83.6	24.34	84.7	.0181	.7086	18.39.9	N	2 12 „
11	19.767	19.57	83.6	24.39	84.5	.0189	.7091	18.39.9	N	3 12 „
12	19.904	19.68	83.3	24.41	84.3	.0206	.7094	18.39.8	N	4 12 „
13	20.110	19.51	82.4	24.29	84.0	.0178	.7080	18.39.7	C	5 12 „
14	19.904	19.86	81.9	24.36	83.6	.0236	.7088	18.39.2	C	6 12 „
15	20.933	19.86	82.4	24.48	83.6	.0236	.7101	18.39.7	C	7 12 „
16	20.933	20.15	83.0	24.47	84.0	.0284	.7100	18.39.2	C	8 12 „
17	20.659	20.61	84.6	24.30	84.8	.0358	.7082	18.37.3	L	9 12 „
18	20.316	21.21	85.9	24.13	85.8	.0449	.7063	18.35.4	L	10 12 „
19	19.973	21.47	87.4	24.14	86.8	.0501	.7064	18.34.8	L	11 12 „
20	19.630	21.35	88.4	24.04	87.4	.0480	.7053	18.34.8	L	Noon.
21	19.081	21.17	88.0	24.04	88.0	.0451	.7053	18.35.1	N	1 12 p. m.
22	19.218	20.92	89.0	23.96	88.8	.0411	.7044	18.35.3	N	2 12 „
23	19.767	20.71	89.4	23.99	89.6	.0375	.7047	18.35.9	N	3 12 „
Apr. 1st-Noon.	19.904	20.42	89.2	23.86	89.4	.0329	.7033	18.36.1	N	4 12 „
1	19.904	20.07	88.5	23.73	89.3	.0271	.7019	18.36.1	C	5 12 „
2	19.630	19.81	87.7	23.67	89.0	.0227	.7012	18.36.3	C	6 12 „
3	19.424	19.72	87.4	23.57	88.5	.0214	.7001	18.36.2	C	7 12 „
4	19.767	19.66	87.0	23.66	88.0	.0204	.7011	18.36.7	C	8 12 „
5	19.699	19.63	86.7	23.66	87.8	.0198	.7011	18.36.7	L	9 12 „
6	19.904	19.62	85.9	23.74	87.4	.0198	.7020	18.37.1	L	10 12 „
7	19.973	19.67	85.5	23.81	87.0	.0206	.7028	18.37.3	L	11 12 „
8	19.973	19.60	85.6	23.85	86.6	.0194	.7032	18.37.6	L	Midnight.
9	19.904	19.54	85.3	23.94	86.2	.0183	.7042	18.38.2	N	1 12 a. m.
10	20.042	19.49	85.0	23.98	86.0	.0175	.7046	18.38.4	N	2 12 „
11	20.042	19.83	85.0	24.10	85.9	.0230	.7060	18.38.2	N	3 12 „
12	19.836	19.74	84.5	24.09	85.6	.0216	.7058	18.38.3	N	4 12 „
13	20.042	19.61	83.6	24.08	85.2	.0195	.7057	18.38.6	C	5 12 „
14	20.179	19.31	83.1	24.27	84.9	.0146	.7078	18.39.9	C	6 12 „
15	21.002	19.47	82.9	24.43	84.6	.0175	.7096	18.40.3	C	7 12 „
16	20.933	19.75	84.0	24.32	85.0	.0218	.7084	18.39.2	C	8 12 „
17	21.002	19.98	84.9	24.21	85.4	.0255	.7072	18.38.2	L	9 12 „
18	20.042	20.37	86.3	24.04	86.0	.0320	.7053	18.36.8	L	10 12 „
19	19.081	20.54	87.5	23.89	87.0	.0347	.7036	18.35.7	L	11 12 „
20	18.189	20.57	88.2	23.93	87.6	.0353	.7041	18.35.9	L	Noon.
21	18.807	20.55	89.0	24.05	88.3	.0349	.7054	18.36.4	N	1 12 p. m.
22	19.836	20.20	89.5	24.17	89.1	.0292	.7067	18.37.7	N	2 12 „
23	20.933	19.99	89.6	24.13	89.4	.0257	.7063	18.37.9	N	3 12 „
Apr. 2nd-Noon.	20.728	19.96	89.5	23.90	89.9	.0253	.7038	18.37.1	N	4 12 „
1	20.385	19.77	89.0	23.67	89.8	.0222	.7012	18.36.4	C	5 12 „
2	19.767	19.65	88.3	23.57	89.1	.0202	.7001	18.36.3	C	6 12 „
3	19.699	19.58	87.9	23.77	88.9	.0189	.7023	18.37.6	C	7 12 „
4	19.424	19.61	87.6	23.62	88.4	.0195	.7007	18.36.6	C	8 12 „
5	19.630	19.64	87.5	23.79	87.9	.0200	.7026	18.37.3	L	9 12 „
6	19.424	19.51	86.7	23.80	87.4	.0178	.7027	18.37.7	L	10 12 „
7	19.493	19.47	86.1	23.97	87.0	.0175	.7045	18.38.4	L	11 12 „
8	19.904	19.48	85.7	24.02	86.6	.0175	.7051	18.38.6	L	Midnight.
9	19.767	19.56	85.6	24.10	86.5	.0187	.7060	18.38.7	N	1 12 a. m.
10	19.904	19.51	85.3	24.17	86.4	.0178	.7067	18.39.2	N	2 12 „
11	20.042	19.56	85.2	24.20	86.0	.0187	.7071	18.39.1	N	3 12 „

DAILY OBSERVATIONS FROM 2ND TO 5TH APRIL 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
APR. 2ND—12	19·904	19.54	84°8	24.27	85°6	8.0183	2.7078	18°39′6	N	4 12 a. m.
13	20.247	19.47	84.3	24.63	85.3	.0175	.7118	18.41.2	C	5 12 „
14	21.139	19.48	84.1	24.55	85.1	.0175	.7109	18.40.8	C	6 12 „
15	21.963	19.50	84.0	24.45	85.0	.0177	.7098	18.40.4	C	7 12 „
16	22.101	19.84	84.2	24.35	85.0	.0232	.7087	18.39.3	C	8 12 „
17	21.619	20.23	85.1	24.17	85.5	.0298	.7067	18.37.6	L	9 12 „
18	21.071	20.66	86.4	23.96	86.0	.0367	.7044	18.35.8	L	10 12 „
19	19.767	20.79	87.0	23.87	86.4	.0388	.7034	18.35.1	L	11 12 „
20	18.836	20.79	87.3	23.97	86.9	.0388	.7045	18.35.6	L	Noon.
21	18.944	20.70	87.7	24.26	87.4	.0375	.7077	18.37.0	N	1 12 p. m.
22	19·493	20.42	87.8	24.34	88.0	.0329	.7086	18.37.9	N	2 12 „
23	20.110	20.31	88.3	24.34	88.6	.0309	.7086	18.38.2	N	3 12 „
APR. 3RD—Noon.	20.316	20.12	88.0	24.22	88.7	.0280	.7073	18.38.1	N	4 12 „
1	20.042	20.16	87.5	24.03	88.2	.0286	.7052	18.37.1	C	5 12 „
2	19.630	19.93	86.8	23.98	87.7	.0247	.7046	18.37.4	C	6 12 „
3	18.807	19.76	86.1	24.04	87.2	.0220	.7053	18.38.1	C	7 12 „
4	19.081	19.64	85.9	24.15	86.8	.0200	.7065	18.38.8	C	8 12 „
5	19.493	19.55	85.3	24.69	86.3	.0185	.7124	18.41.2	L	9 12 „
6	19.699	19.62	85.0	24.43	86.0	.0198	.7096	18.40.0	L	10 12 „
7	19.699	19.66	84.9	24.45	85.8	.0204	.7098	18.40.1	L	11 12 „
8	19.733	19.74	84.8	24.45	85.6	.0216	.7098	18.39.8	L	Midnight.
9	19.836	19.78	84.4	24.46	85.3	.0222	.7099	18.39.8	N	1 12 a. m.
10	19.836	19.75	84.2	24.56	85.2	.0218	.7110	18.40.3	N	2 12 „
11	19.356	19.74	83.6	24.58	84.8	.0216	.7112	18.40.3	N	3 12 „
12	19.287	19.88	83.3	24.55	84.4	.0238	.7109	18.40.0	N	4 12 „
13	19.973	19.78	82.9	24.62	84.1	.0222	.7117	18.40.6	C	5 12 „
14	20.316	19.62	82.6	24.79	83.8	.0198	.7135	18.41.6	C	6 12 „
15	21.482	19.66	82.8	24.81	83.8	.0204	.7138	18.41.7	C	7 12 „
16	21.758	20.04	83.5	24.58	84.0	.0265	.7112	18.39.7	C	8 12 „
17	21.208	20.50	84.7	24.49	84.8	.0341	.7102	18.38.8	L	9 12 „
18	20.933	20.83	85.9	24.28	85.9	.0394	.7079	18.36.8	L	10 12 „
19	19.218	20.93	87.0	24.15	86.7	.0411	.7065	18.36.1	L	11 12 „
20	18.601	20.86	87.9	24.22	87.3	.0400	.7073	18.36.5	L	Noon.
21	18.601	20.72	88.6	24.30	87.9	.0378	.7082	18.37.1	N	1 12 p. m.
22	19.150	20.52	88.6	24.36	88.5	.0345	.7088	18.37.7	N	2 12 „
23	19.493	20.32	88.4	24.33	89.0	.0312	.7085	18.38.2	N	3 12 „
APR. 5TH-Noon.	19.836	20.04	88.3	24.36	88.8	.0265	.7088	18.38.8	N	4 12 „
1	19.973	19.77	87.2	24.24	88.0	.0222	.7075	18.38.9	N	5 12 „
2	19.493	19.72	86.2	24.32	87.3	.0214	.7084	18.39.4	N	6 12 „
3	19.287	19.79	86.0	24.35	87.0	.0224	.7077	18.39.0	L	7 12 „
4	19.218	19.91	85.7	24.44	86.3	.0244	.7097	18.39.6	L	8 12 „
5	19.493	19.70	85.3	24.44	86.1	.0210	.7097	18.40.0	C	9 12 „
6	19.836	19.64	84.7	24.60	86.0	.0200	.7115	18.40.8	C	10 12 „
7	20.042	19.47	84.1	24.63	85.6	.0175	.7118	18.41.2	C	11 12 „
8	20.522	19.70	83.9	24.68	85.1	.0210	.7123	18.41.0	C	Midnight.
9	20.042	19.76	83.5	24.74	84.6	.0220	.7130	18.41.1	N	1 12 a. m.
10	19.904	19.71	83.1	24.93	84.0	.0221	.7151	18.41.9	N	2 12 „
11	20.110	19.58	82.6	24.93	83.8	.0189	.7151	18.42.3	N	3 12 „
12	20.179	19.43	82.2	24.95	83.2	.0165	.7157	18.42.7	N	4 12 „
13	20.315	19.44	81.7	24.93	83.0	.0167	.7151	18.42.6	L	5 12 „
14	20.522	19.47	81.5	25.06	82.6	.0175	.7165	18.43.0	L	6 12 „
15	20.796	19.55	81.6	24.98	82.6	.0185	.7156	18.42.5	L	7 12 „
16	20.796	19.89	82.8	24.89	83.0	.0240	.7146	18.40.5	L	8 12 „
17	20.042	20.27	83.8	24.83	83.6	.0304	.7140	18.40.5	C	9 12 „
18	19.699	20.46	84.8	24.73	84.8	.0335	.7129	18.39.5	C	10 12 „
19	19.150	20.60	85.6	24.57	85.5	.0357	.7111	18.38.5	C	11 12 „
20	18.327	20.72	86.8	24.40	86.2	.0378	.7093	18.37.6	C	Noon.
21	17.915	20.54	87.4	24.41	87.0	.0347	.7094	18.37.9	N	1 12 p. m.
22	18.052	20.30	87.5	24.43	87.6	.0308	.7096	18.38.6	N	2 12 „
23	18.944	20.20	87.9	24.44	88.1	.0292	.7097	18.38.9	N	3 12 „

On the 2nd, at about 19h., Dip as obtained by Observation was 18°58′4.

DAILY OBSERVATIONS FROM 6TH TO 8TH APRIL 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Apr. 6th-Noon.	19°013	20.06	87°8	24.25	88°4	8.0269	2.7076	18°38'3	N	4 12 p. m.
1	18.738	19.84	87.0	24.17	87.8	.0232	.7067	18.38.5	L	5 12 ,,
2	19.493	19.68	86.0	24.33	87.0	.0206	.7085	18.39.5	L	6 12 ,,
3	19.356	19.64	85.3	24.36	86.6	.0200	.7088	18.39.7	L	7 12 ,,
4	19.630	19.54	85.0	24.42	86.1	.0183	.7095	18.40.3	L	8 12 ,,
5	19.836	19.51	84.5	24.47	85.6	.0178	.7100	18.40.5	C	9 12 ,,
6	20.042	19.53	84.4	24.56	85.3	.0181	.7110	18.40.9	C	10 12 ,,
7	20.042	19.56	84.3	24.59	85.2	.0187	.7113	18.40.8	C	11 12 ,,
8	20.247	19.53	84.0	24.65	85.0	.0181	.7120	18.41.3	C	Midnight.
9	20.522	19.31	83.5	24.63	84.2	.0146	.7118	18.41.5	N	1 12 a. m.
10	20.385	19.30	83.0	24.82	83.9	.0145	.7139	18.42.3	N	2 12 ,,
11	20.385	19.14	82.5	24.73	83.5	.0118	.7129	18.42.3	N	3 12 ,,
12	20.316	19.42	82.2	24.84	83.1	.0165	.7141	18.42.2	N	4 12 ,,
13	19.836	19.41	81.6	24.75	82.7	.0162	.7131	18.41.9	L	5 12 ,,
14	20.179	19.52	81.5	24.90	82.3	.0181	.7148	18.42.4	L	6 12 ,,
15	21.139	19.56	81.7	24.99	82.3	.0187	.7157	18.42.6	L	7 12 ,,
16	21.276	19.89	82.5	24.88	82.6	.0240	.7145	18.41.5	L	8 12 ,,
17	21.071	20.24	83.7	24.61	83.5	.0298	.7116	18.39.5	C	9 12 ,,
18	19.973	20.44	85.0	24.36	84.1	.0331	.7089	18.38.0	C	10 12 ,,
19	18.601	20.43	85.7	24.29	84.9	.0329	.7080	18.37.7	C	11 12 ,,
20	17.915	20.43	86.4	24.37	85.7	.0329	.7090	18.38.1	C	Noon.
21	18.258	20.41	86.9	24.47	86.3	.0326	.7101	18.38.5	N	1 12 p. m.
22	18.944	20.33	87.4	24.55	87.1	.0312	.7109	18.39.1	N	2 12 ,,
23	19.356	20.06	87.3	24.43	87.8	.0269	.7096	18.39.1	N	3 12 ,,
Apr. 7th-Noon.	19.856	19.89	86.8	24.25	87.6	.0240	.7076	18.38.7	N	4 12 ,,
1	18.670	19.97	86.0	24.15	87.0	.0255	.7065	18.38.0	L	5 12 ,,
2	19.013	19.68	84.9	24.34	86.4	.0206	.7086	18.39.5	L	6 12 ,,
3	19.356	19.60	84.6	24.47	85.5	.0194	.7100	18.40.3	L	7 12 ,,
4	19.218	19.38	83.8	24.50	85.0	.0157	.7104	18.40.8	L	8 12 ,,
5	19.699	19.47	83.4	24.51	84.9	.0173	.7105	18.40.8	C	9 12 ,,
6	19.836	19.37	83.2	24.55	84.5	.0157	.7109	18.41.0	C	10 12 ,,
7	20.590	19.63	83.1	24.53	84.2	.0198	.7107	18.40.5	C	11 12 ,,
8	20.728	19.68	82.9	24.49	84.0	.0206	.7102	18.40.1	C	Midnight.
9	20.590	19.72	82.6	24.51	83.8	.0214	.7105	18.40.3	N	1 12 a. m.
10	20.385	19.54	82.3	24.48	83.4	.0183	.7101	18.40.5	N	2 12 ,,
11	20.042	19.50	82.0	24.55	83.2	.0177	.7109	18.40.8	N	3 12 ,,
12	19.904	19.48	81.8	24.67	83.0	.0175	.7122	18.41.3	N	4 12 ,,
13	19.630	19.44	81.6	24.64	83.0	.0175	.7119	18.41.2	L	5 12 ,,
14	20.247	19.53	81.4	24.83	82.5	.0181	.7140	18.42.1	L	6 12 ,,
15	21.139	19.57	81.7	24.82	82.4	.0189	.7139	18.41.8	L	7 12 ,,
16	21.551	19.86	82.2	24.66	82.6	.0236	.7121	18.40.5	L	8 12 ,,
17	21.071	20.18	83.4	24.37	83.2	.0288	.7089	18.38.5	C	9 12 ,,
18	19.699	20.50	84.6	24.12	84.0	.0341	.7062	18.36.8	C	10 12 ,,
19	18.670	20.63	85.0	24.04	84.7	.0361	.7053	18.36.3	C	11 12 ,,
20	17.092	20.59	85.5	24.18	85.3	.0355	.7057	18.36.5	C	Noon.
21	17.298	20.38	86.0	24.29	85.8	.0320	.7080	18.37.8	N	1 12 p. m.
22	18.121	20.24	86.3	24.47	86.2	.0290	.7100	18.39.0	N	2 12 ,,
23	19.356	20.12	86.5	24.46	87.0	.0280	.7099	18.39.1	N	3 12 ,,
Apr. 8th-Noon.	20.247	19.92	86.0	24.31	87.0	.0247	.7083	18.38.8	N	4 12 ,,
1	19.973	19.80	85.3	24.11	86.4	.0226	.7061	18.38.2	L	5 12 ,,
2	19.356	19.71	84.3	24.12	86.0	.0211	.7062	18.38.5	L	6 12 ,,
3	19.013	19.61	83.6	24.10	85.1	.0195	.7060	18.38.6	L	7 12 ,,
4	19.287	19.59	83.4	24.26	84.7	.0181	.7077	18.39.6	L	8 12 ,,
5	19.493	19.46	83.0	24.16	84.5	.0171	.7066	18.39.3	C	9 12 ,,
6	19.699	19.46	82.9	24.59	84.0	.0173	.7113	18.41.1	C	10 12 ,,
7	19.973	19.43	82.5	24.65	83.7	.0165	.7120	18.41.4	C	11 12 ,,
8	20.042	19.50	82.4	24.61	83.3	.0177	.7116	18.41.1	C	Midnight.
9	20.247	19.51	82.1	24.73	83.0	.0178	.7129	18.41.6	N	1 12 a. m.
10	20.042	19.54	81.9	24.72	82.9	.0183	.7128	18.41.6	N	2 12 ,,
11	20.042	19.43	81.4	24.70	82.7	.0165	.7126	18.41.6	N	3 12 ,,

On the 6th at about 19h., Dip as obtained by Observation was 19°01'5.

DAILY OBSERVATIONS FROM 8TH TO 12TH APRIL 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.	°									h. m.
Apr. 8th—12	19°836	19.53	81°2	24.70	82°4	8.0181	2.7126	18°41'5	N	4 12 a. m.
13	20.042	19.53	81.0	24.72	82.2	.0181	.7128	18.41.6	L	5 12 „
14	20.316	19.68	81.1	24.89	82.0	.0206	.7144	18.41.8	L	6 12 „
15	20.933	19.95	81.5	24.71	82.0	.0251	.7127	18.40.6	L	7 12 „
16	20.247	20.04	82.0	24.37	82.3	.0265	.7089	18.38.8	L	8 12 „
17	20.042	20.62	83.1	24.31	82.0	.0361	.7083	18.37.4	C	9 12 „
18	19.699	21.02	84.0	24.29	83.7	.0427	.7080	18.36.5	C	10 12 „
19	19.150	21.28	84.8	24.27	84.3	.0468	.7078	18.35.8	C	11 12 „
20	19.013	20.86	85.6	24.33	85.2	.0400	.7085	18.37.0	C	Noon.
21	19.013	20.72	86.0	24.37	85.8	.0378	.7089	18.37.4	N	1 12 p. m.
22	19.150	20.50	86.0	24.44	86.2	.0341	.7097	18.38.3	N	2 12 „
23	19.287	20.31	85.8	24.39	86.4	.0309	.7091	18.38.4	N	3 12 „
Apr. 10th—Noon.	20.042	20.04	85.0	24.05	86.5	.0265	.7054	18.37.5	C	4 12 „
1	19.973	19.75	84.1	24.03	85.6	.0218	.7052	18.38.0	C	5 12 „
2	19.081	19.46	83.1	23.95	85.0	.0171	.7043	18.38.4	C	6 12 „
3	19.287	19.46	82.6	24.10	84.0	.0171	.7060	18.39.0	L	7 12 „
4	19.493	19.41	82.3	24.22	83.7	.0162	.7073	18.39.6	L	8 12 „
5	19.356	19.48	82.0	24.25	83.4	.0173	.7076	18.39.6	C	9 12 „
6	19.356	19.60	82.0	24.35	83.3	.0194	.7087	18.39.8	C	10 12 „
7	19.287	19.63	81.9	24.55	83.2	.0198	.7109	18.40.5	C	11 12 „
8	19.287	19.77	81.7	24.54	83.0	.0222	.7108	18.40.2	C	Midnight.
9	19.561	19.67	81.2	24.73	82.5	.0206	.7129	18.41.2	N	1 12 a. m.
10	19.493	19.59	81.0	24.77	82.2	.0181	.7133	18.41.8	N	2 12 „
11	19.424	19.59	80.8	24.75	82.0	.0181	.7131	18.41.7	N	3 12 „
12	19.013	19.51	80.3	24.75	81.8	.0178	.7131	18.41.7	N	4 12 „
13	19.218	19.40	80.3	24.71	81.7	.0161	.7127	18.41.8	L	5 12 „
14	19.630	19.38	80.2	24.78	81.4	.0157	.7134	18.42.0	L	6 12 „
15	19.904	19.69	80.6	24.82	81.4	.0208	.7139	18.41.6	L	7 12 „
16	20.728	19.92	81.6	24.72	81.9	.0247	.7128	18.40.6	L	8 12 „
17	20.042	20.53	82.9	24.42	82.7	.0345	.7095	18.38.0	C	9 12 „
18	18.601	20.65	83.5	24.26	83.3	.0365	.7077	18.37.1	C	10 12 „
19	17.984	20.79	84.1	24.34	83.9	.0388	.7088	18.37.0	C	11 12 „
20	17.915	20.76	84.8	24.41	84.8	.0384	.7094	18.37.6	C	Noon.
21	18.601	20.58	85.3	24.46	85.2	.0355	.7099	18.38.0	N	1 12 p. m.
22	19.081	20.13	85.8	24.42	85.8	.0280	.7095	18.39.0	N	2 12 „
23	19.836	19.84	85.8	24.39	86.2	.0232	.7091	18.39.4	N	3 12 „
Apr. 12th—Noon.	20.179	18.66	85.9	24.26	86.8	.0040	.7077	18.41.4	L	4 12 „
1	20.042	18.05	85.0	24.11	86.2	7.9940	.7061	18.42.0	L	5 12 „
2	19.699	17.94	84.1	24.17	85.6	.9910	.7067	18.42.7	L	6 12 „
3	19.424	18.15	83.6	24.18	85.0	.9956	.7068	18.42.0	L	7 12 „
4	19.356	18.22	83.4	24.36	84.7	.9968	.7088	18.42.7	L	8 12 „
5	20.110	18.22	83.3	24.20	84.3	.9968	.7071	18.42.0	C	9 12 „
6	19.904	18.40	83.0	24.12	84.0	.9997	.7062	18.41.2	C	10 12 „
7	20.247	18.47	82.7	24.05	83.7	8.0009	.7054	18.40.9	C	11 12 „
8	20.453	18.91	82.4	24.27	83.5	.0080	.7078	18.40.9	C	Midnight.
9	20.659	18.69	82.0	24.32	83.0	.0044	.7084	18.41.6	N	1 12 a. m.
10	21.139	18.78	81.8	24.41	82.8	.0058	.7094	18.41.7	N	2 12 „
11	19.699	19.22	81.5	24.27	82.6	.0122	.7078	18.40.3	N	3 12 „
12	20.316	18.99	81.2	24.37	82.4	.0093	.7089	18.41.1	N	4 12 „
13	20.453	19.09	81.4	24.60	82.4	.0109	.7115	18.42.0	L	5 12 „
14	20.042	19.20	81.4	24.69	82.3	.0118	.7124	18.42.1	L	6 12 „
15	29.933	19.10	81.9	24.85	82.4	.0112	.7142	18.43.0	L	7 12 „
16	20.933	19.60	82.7	24.73	82.8	.0194	.7129	18.41.4	L	8 12 „
17	20.796	19.93	83.6	24.52	83.4	.0247	.7106	18.39.7	C	9 12 „
18	19.767	20.24	85.0	24.30	84.4	.0298	.7082	18.38.1	C	10 12 „
19	18.532	20.17	85.2	24.14	84.8	.0288	.7064	18.37.5	C	11 12 „
20	17.984	20.07	86.0	24.07	85.5	.0281	.7056	18.37.5	C	Noon.
21	17.742	19.75	86.4	24.18	86.0	.0218	.7068	18.38.6	N	1 12 p. m.
22	18.121	19.73	86.8	24.12	86.8	.0214	.7062	18.38.5	N	2 12 „
23	18.532	19.50	87.0	24.18	87.2	.0177	.7068	18.39.2	N	3 12 „

DAILY OBSERVATIONS FROM 13TH TO 15TH APRIL 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
APR. 13TH—Noon.	19'150	19.32	86°4	24.12	87°2	8.0149	2.7062	18°39'2	N	4 12 p. m.
1	19.767	19.00	85.5	23.92	86.7	.0095	.7040	18.39.2	L	5 12 ,,
2	19.630	18.96	84.6	23.88	86.1	.0089	.7035	18.39.1	L	6 12 ,,
3	19.356	19.05	84.0	23.97	85.6	.0103	.7045	18.39.4	L	7 12 ,,
4	18.327	19.53	83.8	23.96	85.2	.0181	.7044	18.38.3	L	8 12 ,,
5	19.081	19.12	83.6	24.15	85.0	.0116	.7065	18.39.8	C	9 12 ,,
6	19.630	18.93	83.4	24.00	85.0	.0083	.7049	18.39.8	C	10 12 ,,
7	20.247	18.90	83.2	24.24	84.7	.0079	.7075	18.40.8	C	11 12 ,,
8	20.796	19.06	83.2	24.39	84.6	.0105	.7091	18.41.0	C	Midnight.
9	20.453	18.96	83.0	24.32	84.1	.0089	.7084	18.40.9	N	1 12 a. m.
10	20.453	19.01	83.0	24.37	83.9	.0096	.7089	18.41.0	N	2 12 ,,
11	19.973	19.48	82.8	24.36	83.8	.0173	.7088	18.40.1	N	3 12 ,,
12	19.767	19.15	82.4	24.41	83.6	.0120	.7094	18.40.9	N	4 12 ,,
13	19.699	19.23	82.3	24.41	83.5	.0122	.7094	18.40.9	L	5 12 ,,
14	20.110	19.24	82.1	24.48	83.3	.0124	.7101	18.41.2	L	6 12 ,,
15	20.659	19.33	82.5	24.34	83.2	.0149	.7086	13.40.2	L	7 12 ,,
16	20.316	19.65	83.0	24.10	83.4	.0202	.7060	18.38.6	L	8 12 ,,
17	19.767	20.00	84.0	23.96	84.2	.0259	.7044	18.37.1	C	9 12 ,,
18	18.807	20.20	85.0	23.83	84.9	.0292	.7030	18.36.3	C	10 12 ,,
19	18.532	20.09	85.6	23.82	85.4	.0273	.7029	18.36.5	C	11 12 ,,
20	17.984	20.14	86.0	23.90	86.1	.0282	.7038	18.36.8	C	Noon.
21	18.121	19.95	86.5	24.10	86.5	.0250	.7060	18.37.9	N	1 12 p. m.
22	18.532	19.83	86.8	24.21	87.0	.0230	.7072	18.38.6	N	2 12 ,,
23	18.807	19.80	86.7	24.23	87.5	.0226	.7074	18.38.7	N	3 12 ,,
APR. 14TH—Noon.	19.493	19.62	86.4	24.13	87.5	.0198	.7063	18.38.7	N	4 12 ,,
1	19.561	19.41	85.7	23.87	87.0	.0162	.7034	18.38.1	L	5 12 ,,
2	18.875	19.29	84.8	23.83	86.2	.0132	.7030	18.38.4	L	6 12 ,,
3	18.738	19.23	84.0	23.87	85.8	.0122	.7034	18.38.6	L	7 12 ,,
4	18.807	19.43	83.9	23.98	85.4	.0165	.7046	18.38.5	L	8 12 ,,
5	19.081	19.43	83.9	23.97	85.1	.0165	.7045	18.38.5	C	9 12 ,,
6	19.218	19.39	83.5	24.10	84.9	.0159	.7060	18.39.1	C	10 12 ,,
7	19.699	19.39	83.3	23.96	84.8	.0159	.7044	18.38.5	C	11 12 ,,
8	19.561	19.33	83.2	24.04	84.6	.0149	.7053	18.39.0	C	Midnight.
9	19.042	19.39	83.0	24.02	84.1	.0159	.7051	18.38.8	N	1 12 a. m.
10	19.767	19.25	82.8	24.01	83.8	.0126	.7051	18.39.2	N	2 12 ,,
11	19.561	19.24	82.7	24.03	83.7	.0124	.7052	18.39.3	N	3 12 ,,
12	19.356	19.27	82.4	24.11	83.6	.0130	.7061	18.39.5	N	4 12 ,,
13	19.356	19.36	82.7	24.11	83.6	.0155	.7061	18.39.1	L	5 12 ,,
14	20.247	19.36	83.0	24.23	83.6	.0155	.7074	18.39.5	L	6 12 ,,
15	21.276	19.38	83.3	24.13	83.5	.0157	.7063	18.39.2	L	7 12 ,,
16	21.688	19.71	83.8	23.94	83.9	.0211	.7042	18.37.8	L	8 12 ,,
17	21.688	20.16	84.8	23.62	84.5	.0286	.7007	18.35.4	C	9 12 ,,
18	20.316	20.45	85.5	23.32	85.0	.0333	.6974	18.33.5	C	10 12 ,,
19	18.875	20.68	86.4	23.16	86.0	.0369	.6957	18.32.5	C	11 12 ,,
20	18.121	20.65	87.0	23.41	86.6	.0365	.6984	18.33.4	C	Noon.
21	18.498	20.42	87.2	23.51	87.0	.0329	.6995	18.34.4	N	1 12 p. m.
22	18.807	20.16	87.0	23.52	87.3	.0286	.6996	18.34.9	N	2 12 ,,
23	19.013	19.95	86.5	23.53	87.5	.0251	.6997	18.35.5	N	3 12 ,,
APR. 15TH—Noon.	19.218	19.83	86.3	23.48	87.5	.0230	.6991	18.35.5	N	4 12 ,,
1	18.944	19.69	85.8	23.41	87.1	.0208	.6984	18.35.5	L	5 12 ,,
2	19.424	19.43	84.7	23.47	86.4	.0165	.6990	18.36.3	L	6 12 ,,
3	18.875	19.43	84.1	23.46	85.9	.0165	.6989	18.36.2	L	7 12 ,,
4	18.532	19.56	84.0	23.57	85.5	.0187	.7002	18.36.4	L	8 12 ,,
5	18.807	19.62	83.9	23.69	85.3	.0198	.7014	18.36.8	C	9 12 ,,
6	18.944	19.54	83.6	23.82	85.0	.0183	.7029	18.37.7	C	10 12 ,,
7	19.115	19.51	83.1	23.88	84.6	.0178	.7035	18.38.0	C	11 12 ,,
8	19.150	19.72	83.0	23.93	84.1	.0214	.7041	18.37.8	C	Midnight.
9	19.699	19.50	82.8	23.91	83.8	.0177	.7039	18.38.1	N	1 12 a. m.
10	19.767	19.43	82.3	23.96	83.6	.0165	.7044	18.38.4	N	2 12 ,,
11	19.630	19.46	82.0	23.95	83.2	.0171	.7043	18.38.4	N	3 12 ,,

On the 13th, at about 19h., Dip as obtained by Observation was 19°02'5.

DAILY OBSERVATIONS FROM 15TH TO 17TH APRIL 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
APR. 15TH—12	19'356	19.50	81.9	23.99	83°1	8.0177	2.7047	18°38'5	N	4 12 a. m.
13	19.150	19.38	81.9	24.03	83.0	.0157	.7052	18.38.8	L	5 12 „
14	19.493	19.44	81.9	24.07	82.9	.0169	.7056	18.38.9	L	6 12 „
15	20.522	19.49	82.0	24.17	82.9	.0175	.7067	18.39.2	L	7 12 „
16	20.659	20.10	82.9	24.02	83.3	.0276	.7051	18.37.3	L	8 12 „
17	20.453	20.47	83.9	23.81	84.2	.0337	.7028	18.35.6	C	9 12 „
18	19.699	20.72	85.0	23.52	85.1	.0378	.6996	18.33.8	C	10 12 „
19	18.670	20.72	86.2	23.43	86.0	.0378	.6986	18.33.4	C	11 12 „
20	18.464	20.28	86.7	23.52	86.7	.0304	.6996	18.34.9	C	Noon.
21	18.532	20.29	87.1	23.45	87.1	.0306	.6988	18.34.4	N	1 12 p. m.
22	18.944	20.17	87.0	23.43	87.5	.0288	.6986	18.34.5	N	2 12 „
23	19.458	20.04	87.1	23.53	87.8	.0265	.6997	18.35.3	N	3 12 „
APR. 16TH-Noon.	19.630	19.87	87.0	23.49	88.0	.0238	.6992	18.35.4	N	4 12 „
1	19.699	19.62	86.2	23.37	87.0	.0198	.6979	18.35.4	L	5 12 „
2	19.561	19.47	85.1	23.35	86.8	.0173	.6977	18.35.8	L	6 12 „
3	18.875	19.47	84.5	23.31	86.0	.0173	.6973	18.35.6	L	7 12 „
4	18.670	19.54	84.0	23.35	85.7	.0183	.6977	18.35.7	L	8 12 „
5	18.738	19.63	83.8	23.36	85.2	.0198	.6978	18.35.4	C	9 12 „
6	19.150	19.62	83.5	23.41	85.0	.0198	.6984	18.35.6	C	10 12 „
7	19.184	19.58	83.2	23.45	85.0	.0189	.6988	18.35.9	C	11 12 „
8	19.081	19.59	83.0	23.58	84.8	.0191	.7002	18.36.4	C	Midnight.
9	19.356	19.30	82.6	23.68	84.0	.0145	.7013	18.37.4	N	1 12 a. m.
10	19.561	19.30	82.5	23.71	83.8	.0145	.7017	18.37.6	N	2 12 „
11	19.493	19.28	82.4	23.75	83.3	.0130	.7021	18.38.0	N	3 12 „
12	19.767	19.27	82.3	23.80	83.3	.0130	.7027	18.38.3	N	4 12 „
13	19.493	19.32	82.2	23.84	83.2	.0149	.7031	18.38.1	L	5 12 „
14	19.904	19.40	82.0	23.90	83.0	.0161	.7038	18.38.3	L	6 12 „
15	20.453	19.66	82.3	23.79	83.0	.0204	.7025	18.37.3	L	7 12 „
16	20.042	19.95	83.3	23.61	83.5	.0251	.7006	18.35.8	L	8 12 „
17	19.287	20.43	84.5	23.48	84.4	.0329	.6991	18.34.2	C	9 12 „
18	18.189	20.77	85.6	23.41	85.4	.0386	.6984	18.33.1	C	10 12 „
19	16.955	20.77	86.2	23.29	86.1	.0386	.6970	18.32.6	C	11 12 „
20	15.994	20.65	87.0	23.21	87.0	.0365	.6962	18.32.5	C	Noon.
21	16.200	20.56	87.4	23.23	87.5	.0351	.6964	18.32.8	N	1 12 p. m.
22	16.680	20.37	87.4	23.34	87.9	.0338	.6976	18.33.5	N	2 12 „
23	17.778	20.19	87.3	23.40	88.2	.0280	.6983	18.34.6	N	3 12 „
APR. 17TH-Noon.	18.464	20.02	87.0	23.44	88.0	.0263	.6987	18.35.0	N	4 12 „
1	18.944	19.60	86.2	23.27	87.4	.0194	.6968	18.35.1	L	5 12 „
2	19.218	19.39	85.2	23.25	86.7	.0159	.6966	18.35.4	L	6 12 „
3	19.150	19.49	84.7	23.24	86.2	.0175	.6965	18.35.2	L	7 12 „
4	18.807	19.60	84.5	23.33	85.8	.0194	.6975	18.35.4	L	8 12 „
5	19.013	19.57	84.4	23.45	85.7	.0189	.6988	18.35.9	C	9 12 „
6	19.013	19.64	84.3	22.98	85.4	.0200	.6936	18.33.8	C	10 12 „
7	19.356	19.54	83.9	23.08	85.0	.0177	.6947	18.35.6	C	11 12 „
8	19.561	19.47	83.3	23.14	84.7	.0173	.6954	18.34.9	C	Midnight.
9	19.493	19.38	82.7	23.32	84.0	.0157	.6973	18.35.7	N	1 12 a. m.
10	19.767	19.38	82.4	23.34	83.9	.0157	.6976	18.35.8	N	2 12 „
11	19.458	19.31	82.2	23.40	83.4	.0146	.6983	18.36.2	N	3 12 „
12	19.767	19.41	81.9	23.43	83.2	.0162	.6986	18.36.2	N	4 12 „
13	19.493	19.51	81.7	23.47	83.0	.0178	.6990	18.36.2	L	5 12 „
14	19.973	19.61	81.6	23.71	83.0	.0195	.7017	18.37.0	L	6 12 „
15	21.345	19.75	82.0	23.77	83.0	.0218	.7023	18.36.9	L	7 12 „
16	21.758	20.09	82.8	23.60	83.3	.0273	.7005	18.35.6	L	8 12 „
17	21.208	20.34	83.6	23.31	83.8	.0314	.6973	18.33.8	C	9 12 „
18	19.699	20.47	84.5	23.04	84.6	.0337	.6943	18.32.3	C	10 12 „
19	18.395	20.49	85.0	22.95	85.1	.0339	.6933	18.31.9	C	11 12 „
20	17.298	20.43	85.3	22.92	85.5	.0329	.6930	18.31.9	C	Noon.
21	17.298	20.21	85.7	23.03	86.0	.0293	.6942	18.32.8	N	1 12 p. m.
22	18.052	20.11	85.5	23.19	86.2	.0277	.6959	18.33.7	N	2 12 „
23	19.013	20.10	85.5	23.40	86.6	.0276	.6983	18.34.6	N	3 12 „

On the 16th, at about 19h., Dip as obtained by Observation was 18°47'2.
On the 17th, at about 20h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 19TH TO 21ST APRIL 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
APR. 19TH-Noon.	19'493	19.98	84°6	23.49	86°2	8.0255	2.6992	18°35'1	N	4 12 p. m.
1	19.836	19.78	83.3	23.36	85.6	.0222	.6978	18.35.1	N	5 12 „
2	19.561	19.71	82.5	23.35	85.0	.0211	.6977	18.35.3	N	6 12 „
3	19.287	19.63	82.0	23.40	84.0	.0196	.6983	18.35.6	L	7 12 „
4	19.013	19.64	81.7	23.49	83.5	.0198	.6992	18.35.9	L	8 12 „
5	19.013	19.67	81.5	23.59	83.1	.0206	.7003	18.36.3	C	9 12 „
6	19.287	19.64	81.4	23.91	83.0	.0198	.7039	18.37.8	C	10 12 „
7	19.733	19.60	81.1	23.97	82.7	.0194	.7045	18.38.2	C	11 12 „
8	20.042	19.43	81.0	23.83	82.3	.0167	.7030	18.37.9	C	Midnight.
9	20.179	19.34	80.9	23.86	82.0	.0151	.7033	18.38.2	N	1 12 a. m.
10	20.316	19.38	80.7	23.96	81.9	.0157	.7044	18.38.5	N	2 12 „
11	20.110	19.37	80.5	23.98	81.7	.0157	.7046	18.38.6	N	3 12 „
12	19.424	19.57	80.5	23.99	81.6	.0189	.7047	18.38.3	N	4 12 „
13	19.699	19.59	80.4	24.08	81.4	.0191	.7057	18.38.7	L	5 12 „
14	20.247	19.65	80.4	24.22	81.2	.0202	.7073	18.39.1	L	6 12 „
15	21.482	19.70	80.7	24.18	81.4	.0210	.7068	18.38.8	L	7 12 „
16	21.826	20.02	81.3	24.03	81.6	.0263	.7052	18.37.5	L	8 12 „
17	21.758	20.44	82.0	23.81	82.0	.0331	.7028	18.35.7	C	9 12 „
18	20.590	20.70	83.0	23.54	83.0	.0374	.6998	18.34.0	C	10 12 „
19	18.532	20.88	83.9	23.49	83.6	.0400	.6992	18.33.3	C	11 12 „
20	17.229	20.70	84.0	23.62	84.0	.0374	.7007	18.34.4	C	Noon.
21	17.366	20.47	84.3	23.80	84.1	.0337	.7027	18.35.6	N	1 12 p. m.
22	18.189	20.21	84.3	23.94	84.8	.0293	.7042	18.36.7	N	2 12 „
23	19.287	20.00	84.1	24.03	85.0	.0259	.7052	18.37.5	N	3 12 „
APR. 20TH-Noon.	19.904	19.85	83.8	23.90	85.0	.0234	.7038	18.37.4	N	4 12 „
1	19.630	19.75	83.1	23.73	84.2	.0218	.7019	18.36.7	L	5 12 „
2	19.150	19.62	82.1	23.63	83.4	.0198	.7008	18.36.6	L	6 12 „
3	19.218	19.65	81.6	23.79	83.0	.0202	.7025	18.37.3	L	7 12 „
4	19.081	19.69	81.3	23.86	82.7	.0208	.7033	18.37.5	L	8 12 „
5	19.218	19.60	81.0	24.19	82.3	.0194	.7069	18.39.0	C	9 12 „
6	19.493	19.47	80.3	24.09	81.9	.0173	.7058	18.39.0	C	10 12 „
7	19.767	19.55	80.0	24.00	81.5	.0185.	.7049	18.38.3	C	11 12 „
8	19.699	19.53	79.5	24.29	81.0	.0181	.7080	18.39.7	C	Midnight.
9	20.042	19.45	78.9	24.42	80.3	.0169	.7095	18.40.4	N	1 12 a. m.
10	20.316	19.48	78.5	24.60	80.0	.0173	.7115	18.41.2	N	2 12 „
11	19.973	19.58	78.8	24.61	80.0	.0189	.7116	18.40.9	N	3 12 „
12	20.042	19.66	78.9	24.54	80.0	.0204	.7108	18.40.5	N	4 12 „
13	19.767	19.65	78.9	24.59	80.0	.0202	.7113	18.40.7	L	5 12 „
14	20.728	19.59	78.4	24.75	79.4	.0191	.7129	18.41.4	L	6 12 „
15	21.482	19.85	79.0	24.62	79.5	.0234	.7117	18.40.5	L	7 12 „
16	20.796	20.37	80.0	24.28	80.0	.0320	.7079	18.37.7	L	8 12 „
17	19.699	20.84	81.2	24.09	81.0	.0396	.7058	18.36.0	C	9 12 „
18	18.532	21.09	82.7	24.06	82.0	.0437	.7055	18.35.4	C	10 12 „
19	17.641	21.12	83.7	23.97	82.7	.0443	.7045	18.35.0	C	11 12 „
20	16.955	21.04	84.5	24.02	83.6	.0429	.7051	18.35.3	C	Noon.
21	17.572	20.73	85.0	24.23	84.2	.0378	.7074	18.37.2	N	1 12 p. m.
22	18.532	20.49	85.3	24.35	85.1	.0359	.7087	18.37.6	N	2 12 „
* 23.	19.836	20.32	85.6	24.36	85.9	.0312	.7088	18.38.3	N	3 12 „
APR. 21ST-Noon.	20.385	20.16	85.6	24.08	86.0	.0286	.7057	18.37.4	N	4 12 „
1	19.630	20.16	85.5	23.78	86.0	.0286	.7024	18.36.0	L	5 12 „
2	18.670	20.24	84.9	23.72	85.4	.0298	.7018	18.35.7	L	6 12 „
3	18.875	20.02	84.2	23.89	85.0	.0263	.7036	18.36.9	L	7 12 „
4	19.218	19.79	83.9	23.92	84.6	.0224	.7040	18.37.6	L	8 12 „
5	18.875	19.94	83.8	23.95	84.4	.0249	.7043	18.37.3	C	9 12 „
6	18.944	19.99	83.8	23.98	84.2	.0257	.7046	18.37.3	C	10 12 „
7	19.630	19.72	83.3	23.90	84.0	.0214	.7038	18.37.7	C	11 12 „
8	20.110	19.82	83.3	23.87	83.8	.0230	.7034	18.37.2	C	Midnight.
9	20.453	19.53	82.5	23.89	83.1	.0181	.7036	18.38.0	N	1 12 a. m.
10	20.522	19.61	81.9	23.91	82.8	.0195	.7039	18.37.8	N	2 12 „
11	20.110	19.46	81.3	23.97	82.4	.0171	.7045	18.38.5	N	3 12 „

* This Observation of large Declination was taken 13m. later than its proper time.

DAILY OBSERVATIONS FROM 21ST TO 23RD APRIL 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. — Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. — Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. — In English Units.	Absolute Vertical Force. — In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
APR. 21ST—12	20'179	19.40	81°0	24.00	82°0	8.0161	2.7049	18°38'7	N	4 12 a. m.
13	20.522	19.46	80.3	24.09	81.6	.0171	.7058	18.39.0	L	5 12 „
14	21.002	19.37	79.9	24.15	81.0	.0157	.7065	18.39.3	L	6 12 „
15	21.002	19.58	80.5	23.98	81.2	.0189	.7046	18.38.2	L	7 12 „
16	20.042	20.05	81.5	23.81	81.9	.0267	.7028	18.36.5	L	8 12 „
17	19.150	20.48	82.9	23.73	82.7	.0347	.7019	18.35.0	C	9 12 „
18	17.915	20.60	84.0	23.61	83.5	.0357	.7006	18.34.4	C	10 12 „
19	17.298	20.76	84.9	23.63	84.4	.0384	.7008	18.34.3	C	11 12 „
20	17.298	20.76	86.0	23.76	85.4	.0384	.7022	18.34.8	C	Noon.
21	17.984	20.61	86.8	23.83	86.0	.0358	.7030	18.35.4	N	1 12 p. m.
22	18.601	20.45	87.0	23.92	86.7	.0333	.7040	18.36.2	N	2 12 „
23	19.493	20.34	87.2	23.82	87.2	.0312	.7029	18.36.0	N	3 12 „
APR. 22ND-Noon.	19.767	20.16	87.0	23·60	87.3	.0286	.7005	18.35.3	N	4 12 „
1	19.081	20.02	86.6	23.38	87.2	.0263	.6980	18.34.7	L	5 12 „
2	18.875	19.81	85.7	23.45	86.6	.0227	.6988	18.35.4	L	6 12 „
3	18.807	19.73	85.0	23.43	86.1	.0214	.6986	18.35.6	L	7 12 „
4	18.875	19.72	84.7	23.47	85.6	.0214	.6990	18.35.8	L	8 12 „
5	19.013	19.75	84.4	23.47	85.5	.0218	.6990	18.35.6	C	9 12 „
6	19.356	19.76	84.0	23.50	85.0	.0220	.6994	18.35.7	C	10 12 „
7	19.356	19.80	84.0	23.45	84.8	.0226	.6988	18.35·4	C	11 12 „
8	19.424	19.80	83.7	23.52	84.6	.0226	.6996	18.35.7	C	Midnight.
9	19.767	19.66	83.3	23.64	84.0	.0204	.7009	18.36.6	N	1 12 a. m.
10	19.630	19.80	83.0	23.66	83.9	.0226	.7011	18.36.3	N	2 12 „
11	19.630	19.80	82.8	23.69	83.7	.0226	.7014	18.36.4	N	3 12 „
12	19.904	19.84	82.4	23.73	83.2	.0232	.7019	18.36.6	N	4 12 „
13	20.042	19.78	82.3	23.78	83.0	.0222	.7024	18.36.9	L	5 12 „
14	20.247	19.88	82.4	23.80	82.7	.0238	.7027	18.36.9	L	6 12 „
15	20.453	19.98	82.7	23.83	82.7	.0255	.7030	18.36.7	L	7 12 „
16	20.316	20.19	83.2	23.73	83.1	.0290	.7019	18.35.4	L	8 12 „
17	19.699	20.44	84.0	23.47	83.8	.0331	.6990	18.33.8	C	9 12 „
18	18.258	20.59	85.0	23.34	84.3	.0355	.6976	18.33.2	C	10 12 „
19	17.572	20.58	85.9	23.40	85.0	.0353	.6983	18.32.6	C	11 12 „
20	17.572	20.51	86.5	23.45	85.7	.0342	.6999	18.34.4	C	Noon.
21	17.298	20.48	87.1	23.40	86.2	.0337	.6983	18.33.8	N	1 12 p. m.
22	17.984	20.40	87.6	23.46	87.0	.0325	.6989	18.34.1	N	2 12 „
23	19.081	20.34	87.8	23.50	87.4	.0314	.6994	18.34.6	N	3 12 „
APR. 23RD-Noon.	19.801	20.23	87.6	23.49	87.5	.0296	.6992	18.34.6	N	4 12 „
1	19.904	20.09	87.2	23.44	87.0	.0273	.6987	18.34.9	L	5 12 „
2	19.699	19.97	86.6	23.37	86.4	.0255	.6979	18.34.6	L	6 12 „
3	19.356	19.76	85.8	23.39	85.7	.0220	.6981	18.35.2	L	7 12 „
4	19.218	19.77	85.2	23.46	85.0	.0224	.6989	18.35.5	L	8 12 „
5	19.630	19.77	84.9	23.84	84.7	.0224	.7031	18.37.2	C	9 12 „
6	19.493	19.74	84.5	23.80	84.2	.0216	.7027	18.37.1	C	10 12 „
7	19.493	19.76	84·0	23.52	83.9	.0220	.6996	18.35.8	C	11 12 „
8	19.767	19.81	83.9	23.45	83.7	.0227	.6988	18.35.4	C	Midnight.
9	19.904	19.76	83.5	23.47	83.3	.0220	.6990	18.35.6	N	1 12 a. m.
10	19.973	19.80	83.2	23.56	83.3	.0226	.7000	18.35.9	N	2 12 „
11	19.767	19.86	83.2	23.60	83.3	.0236	.7005	18.36.0	N	3 12 „
12	19.630	19.80	82.9	23.56	83.0	.0226	.7000	18.35.9	N	4 12 „
13	19.630	19.86	82.6	23.57	82.9	.0236	.7001	18.35.8	L	5 12 „
14	19.630	19.78	82.1	23.72	82.4	.0222	.7018	18.36.7	L	6 12 „
15	20.728	19.76	82.3	23.81	82.3	.0220	.7028	18.37.1	L	7 12 „
16	20.796	20.00	82.9	23.77	82.4	.0259	.7023	18.36.4	L	8 12 „
17	19.836	20.30	83.7	23.45	82.8	.0308	.6988	18.34.4	C	9 12 „
18	18.208	20.51	84.7	23.28	83.5	.0342	.6969	18.33.2	C	10 12 „
19	17.503	20.57	85.6	23.24	84.7	.0353	.6965	18.32.9	C	11 12 „
20	17.092	20.54	86.5	23.22	85.4	.0347	.6963	18.32.8	C	Noon.
21	17.092	20.57	86.8	23.33	86.0	.0353	.6975	18.33.3	N	1 12 p. m.
22	17.984	20.46	87.2	23.40	86.7	.0335	.6983	18.33.8	N	2 12 „
23	18.395	20.37	87.3	23.37	87.2	.0330	.6979	18.33.7	N	3 12 „

On the 23rd, at about 19h., Dip as obtained by Observation was 18°54'7.

DAILY OBSERVATIONS FROM 24TH TO 27TH APRIL 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
APR. 24TH-Noon.	18'944	20.29	87°2	23.36	87°3	8.0306	2.6978	18°34'0	N	4 12 p. m.
1	19.561	20.16	86.8	23.32	87.0	.0286	.6974	18.34.0	L	5 12 „
2	19.424	19.97	86.1	23.20	86.5	.0255	.6961	18.33.9	L	6 12 „
3	19.013	19.85	85.5	23.11	85.8	.0234	.6951	18.34.0	L	7 12 „
4	19.081	19.80	85.0	23.18	85.4	.0226	.6958	18.34.3	L	8 12 „
5	19.356	19.81	84.7	23.21	85.0	.0227	.6962	18.34.3	C	9 12 „
6	19.493	19.85	84.4	23.34	84.7	.0234	.6976	18.35.0	C	10 12 „
7	19.699	19.83	84.2	23.39	84.3	.0230	.6981	18.35.1	C	11 12 „
8	19.836	20.20	84.0	23.42	84.0	.0292	.6985	18.34.5	C	Midnight.
9	19.904	20.09	83.8	23.47	84.0	.0273	.6980	18.34.6	N	1 12 a. m.
10	20.042	20.15	83.6	23.51	83.8	.0284	.6995	18.35.1	N	2 12 „
11	20.385	20.08	83.3	23.51	83.7	.0271	.6995	18.35.2	N	3 12 „
12	20.453	19.49	83.0	23.58	83.4	.0175	.7002	18.36.6	N	4 12 „
13	19.699	19.62	82.7	23.48	83.4	.0198	.6991	18.35.9	L	5 12 „
14	20.316	19.65	82.9	23.69	83.0	.0202	.7012	18.36.7	L	6 12 „
15	21.551	19.67	83.0	23.71	83.0	.0206	.7017	18.36.9	L	7 12 „
16	22.444	19.83	83.6	23.55	83.2	.0230	.6999	18.35.8	L	8 12 „
17	22.374	20.12	84.4	23.15	83.8	.0280	.6955	18.33.6	C	9 12 „
18	20.865	20.31	85.0	22.89	84.4	.0309	.6926	18.32.0	C	10 12 „
19	19.493	20.42	85.9	22.85	85.0	.0329	.6922	18.31.5	C	11 12 „
20	18.181	20.42	86.6	22.88	85.9	.0329	.6925	18.31.7	C	Noon.
21	17.215	20.35	86.9	23.06	86.4	.0316	.6945	18.32.6	N	1 12 p. m.
22	18.807	20.31	87.4	23.17	87.0	.0309	.6957	18.33.3	N	2 12 „
23	19.493	20.12	87.6	23.21	87.6	.0280	.6962	18.33.7	N	3 12 „
APR. 26TH-Noon.	19.356	20.21	87.8	22.90	88.5	.0293	.6928	18.32.3	C	4 12 „
1	19.699	19.95	87.0	22.94	88.0	.0251	.6932	18.32.9	C	5 12 „
2	19.630	19.75	86.0	22.70	87.3	.0218	.6906	18.32.3	C	6 12 „
3	19.081	19.72	85.6	22.61	87.0	.0214	.6896	18.32.1	C	7 12 „
4	19.081	19.80	85.5	22.89	86.8	.0226	.6926	18.33.0	C	8 12 „
5	19.287	19.61	85.1	22.95	86.5	.0195	.6933	18.33.7	C	9 12 „
6	19.356	19.65	85.0	23.05	86.3	.0210	.6944	18.34.0	C	10 12 „
7	19.493	19.64	84.8	23.03	86.0	.0208	.6942	18.33.9	C	11 12 „
8	19.699	19.54	84.4	23.07	85.7	.0183	.6946	18.34.5	C	Midnight.
9	19.767	19.52	83.9	23.23	85.3	.0181	.6943	18.35.1	N	1 12 a. m.
10	19.561	19.68	83.8	23.23	85.0	.0206	.6943	18.34.7	N	2 12 „
11	19.630	19.80	83.8	23.29	85.0	.0226	.6970	18.34.7	N	3 12 „
12	19.424	19.82	83.5	23.24	84.8	.0230	.6965	18.34.5	N	4 12 „
13	19.699	19.84	83.4	23.32	84.4	.0232	.6974	18.34.8	L	5 12 „
14	20.590	19.89	83.3	23.52	84.3	.0240	.6996	18.35.6	L	6 12 „
15	21.963	19.90	83.9	23.59	84.5	.0243	.7003	18.35.9	L	7 12 „
16	22.101	20.23	84.5	23.05	85.0	.0296	.6944	18.32.8	L	8 12 „
17	20.865	20.71	85.4	22.65	85.6	.0375	.6900	18.30.1	L	9 12 „
18	18.807	21.05	86.3	22.52	86.0	.0431	.6884	18.28.7	L	10 12 „
19	17.984	20.81	86.8	22.69	86.4	.0391	.6904	18.30.0	L	11 12 „
20	16.612	20.87	87.4	22.67	87.0	.0422	.6902	18.29.5	L	Noon.
21	16.749	20.68	87.6	22.81	87.5	.0369	.6918	18.30.9	N	1 12 p. m.
22	17.366	20.72	87.8	22.96	87.8	.0378	.6934	18.31.6	N	2 12 „
23	17.846	20.53	88.0	22.95	88.3	.0345	.6933	18.31.9	N	3 12 „
APR. 27TH-Noon.	18.670	20.18	87.8	22.93	88.0	.0288	.6931	18.32.4	N	4 12 „
1	18.738	20.07	87.3	22.82	88.0	.0271	.6919	18.32.2	L	5 12 „
2	18.944	19.70	87.0	22.80	88.0	.0210	.6917	18.33.0	L	6 12 „
3	18.944	19.41	86.4	22.79	87.5	.0162	.6915	18.33.5	L	7 12 „
4	19.081	19.20	86.0	22.78	87.2	.0118	.6914	18.33.9	L	8 12 „
5	19.218	19.09	85.7	22.92	86.8	.0109	.6930	18.34.8	C	9 12 „
6	19.767	19.17	85.1	23.00	86.5	.0124	.6939	18.34.9	C	10 12 „
7	20.110	19.47	85.0	23.21	86.3	.0173	.6962	18.35.1	C	11 12 „
8	19.767	19.79	85.0	22.93	86.1	.0224	.6931	18.33.3	C	Midnight.
9	20.316	19.57	85.0	22.93	86.0	.0189	.6931	18.33.7	N	1 12 a. m.
10	20.247	19.66	84.9	22.98	85.0	.0204	.6936	18.33.8	N	2 12 „
11	20.385	19.73	84.4	22.99	85.6	.0214	.6937	18.33.8	N	3 12 „

On the 24th, at about 19h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 27TH TO 29TH APRIL 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Apr. 27th—12	19'699	19,67	84°1	23.27	85°2	8.0206	2.6968	18°34'9	N	4 12 a. m.
13	19.561	19.74	84.0	23.30	85.4	.0216	.6972	18.34.8	L	5 12 „
14	20.179	19.72	84.0	23.44	85.0	.0214	.6987	18·35.7	L	6 12 „
15	21.276	19.66	84.3	23.43	85.0	.0204	.6986	18.35.7	L	7 12 „
16	21.551	19.95	85.3	23.18	85.4	.0251	.6958	18.34.0	L	8 12 „
17	21.071	20.18	86.4	22.97	86.2	.0288	.6935	18.32.6	C	9 12 „
18	20.179	20.34	87.4	22.66	87.1	.0314	.6901	18.31.0	C	10 12 „
19	18.944	20.61	88.6	22.56	88.0	.0359	.6890	18.29.9	C	11 12 „
20	17.984	20.62	89.0	22.54	88.7	.0369	.6888	18.29.7	C	Noon.
21	17.846	20.51	89.0	22.61	89.0	.0342	.6896	18.30.4	N	1 12 p. m.
22	17.984	20.36	88.8	22.68	89.2	.0328	.6903	18.30.8	N	2 12 „
23	18.327	20.31	88.4	22.70	89.2	.0309	.6906	18.31.2	N	3 12 „
Apr. 28th-Noon.	18.327	20.10	88.0	22.67	89.1	.0276	.6902	18.31.4	N	4 12 „
1	18.327	19.91	87.5	22.57	88.6	.0244	.6891	18.31.5	L	5 12 „
2	18.670	19.34	86.7	22.69	88.0	.0151	.6904	18.33.1	L	6 12 „
3	19.287	19.35	86.2	22.68	87.6	.0153	.6903	18.33.1	L	7 12 „
4	19.013	19.48	86.2	22.74	87.3	.0173	.6910	18.33.2	L	8 12 „
5	19.081	19.60	86.0	22.71	87.2	.0194	.6909	18.32.8	C	9 12 „
6	19.218	19.71	86.0	22.73	87.0	.0211	.6909	18.32.6	C	10 12 „
7	19.218	19.62	85.8	22.74	86.8	.0198	.6910	18.32.8	C	11 12 „
8	19.287	19.57	85.3	22.72	86.2	.0189	.6908	18.32.8	C	Midnight.
9	19.081	19.54	84.8	22.78	86.0	.0183	.6914	18.33.2	N	1 12 a. m.
10	19.287	19.57	84.5	22.83	85.7	.0189	.6920	18.33.3	N	2 12 „
11	19.356	19.83	84.2	22.86	85.3	.0230	.6923	18.32.9	N	3 12 „
12	19.493	19.78	84.0	22.90	85.1	.0222	.6928	18.33.2	N	4 12 „
13	19.767	19.65	83.7	23.00	85.0	.0202	.6939	18.33.9	L	5 12 „
14	20.179	19.68	83.5	23.20	84.7	.0206	.6861	18.34.6	L	6 12 „
15	21.071	19.91	83.9	23.12	84.8	.0244	.6952	18.33.9	L	7 12 „
16	20.865	20.19	84.5	22.91	85.2	.0290	.6929	18.32.3	L	8 12 „
17	20.042	20.64	86.0	22.64	86.2	.0361	.6899	18.30.2	C	9 12 „
18	19.150	20.95	87.0	22.60	86.8	.0382	.6895	18.29 9	C	10 12 „
19	18.258	20.60	87.5	22.51	87.1	.0357	.6885	18.29.7	C	11 12 „
20	17.709	20.40	87.9	22.49	87.8	.0325	.6882	18.29.9	C	Noon.
21	18.121	20.23	88.5	22.54	88.1	.0296	.6888	18.30.6	N	1 12 p. m.
22	18.464	20.05	88.5	22.66	88.5	.0267	.6901	18.31.5	N	2 12 „
23	19.287	19.91	88.5	22.67	89.0	.0244	.6902	18.31.9	N	3 12 „
Apr. 29th-Noon.	19.767	19.95	88.5	22.65	89.0	.0251	.6900	18.31.7	N	4 12 „
1	19.836	19.84	88.0	22.52	88.8	.0232	.6886	18.31.4	N	5 12 „
2	19.356	19.74	87.0	22.54	88.0	.0216	.6888	18.31.6	N	6 12 „
3	18.875	19.55	86.4	22.51	87.6	.0185	.6885	18.31.9	L	7 12 „
4	19.150	19.40	86.1	22.54	87.3	.0161	.6888	18.32.4	L	8 12 „
5	19.013	19.46	86.0	22.52	87.1	.0171	.6886	18.32.2	C	9 12 „
6	19.150	19.59	86.0	22.56	87.0	.0191	.6890	18.32.1	C	10 12 „
7	19.356	19.58	86.0	22.61	86.9	.0189	.6896	18.32.3	C	11 12 „
8	19.424	19.64	86.0	22.45	86.6	.0200	.6878	18.31.5	C	Midnight.
9	19.424	19.68	85.6	22.53	86.4	.0206	.6887	18.31.8	C	1 12 a. m.
10	19.424	19.64	85.2	22.58	86.0	.0200	.6892	18.32.0	N	2 12 „
11	19.630	19.56	84.9	22.58	86.0	.0187	.6892	18.32.1	N	3 12 „
12	19.836	19.58	84.3	22.61	85.8	.0189	.6896	18.32.3	N	4 12 „
13	19.699	19.58	84.0	22.65	85.6	.0189	.6900	18.32.5	L	5 12 „
14	20.522	19.55	83.9	22.84	85.2	.0185	.6921	18.33.3	L	6 12 „
15	21.482	19.66	84.3	22.78	85.3	.0204	.6914	18.32.9	L	7 12 „
16	20.728	19.80	85.5	22.57	85.9	.0226	.6887	18.31.5	L	8 12 „
17	19.493	20.14	86.3	22.23	86.9	.0280	.6853	18.29.6	L	9 12 „
18	17.984	20.45	88.0	22.10	87.4	.0333	.6840	18.28.4	C	10 12 „
19	17.915	20.51	88.2	22.11	87.8	.0342	.6841	18.28.3	C	11 12 „
20	17.641	20.47	88.6	22.08	88.5	.0337	.6837	18.28.2	C	Noon.
21	17.436	20.37	89.0	22.07	89.0	.0320	.6836	18.28.3	N	1 12 p. m.
22	17.846	20.28	89.5	22.17	89.5	.0296	.6847	18.29.1	N	2 12 „
23	18.189	20.16	89.2	22.19	89.6	.0286	.6849	18.29.2	N	3 12 „

On the 27th, at about 19h., Dip as obtained by Observation was 19°08'1.

DAILY OBSERVATIONS FROM 30TH APRIL TO 3RD MAY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
APR. 30TH—Noon.	18·807	20·06	88·9	22.21	89·6	8·0269	2·6852	18°29·6	N	4 12 p. m.
1	19.356	19.98	88.6	22.08	89.2	.0255	.6837	18.29.2	L	5 12 „
2	19·356	19·78	87.7	22.02	88.9	.0222	·6831	18.29.4	L	6 12 „
3	19.150	19.67	87·1	22.03	88.3	.0206	.6832	18.29.6	L	7 12 „
4	19.218	19·73	87.0	22.01	87.8	.0214	·6830	18.29.6	L	8 12 „
5	19.493	19.80	86.9	22.28	87.6	.0226	·6859	18.30.4	C	9 12 „
6	19·356	19.78	86.5	22.20	87.4	.0222	.6851	18.30.2	C	10 12 „
7	19·424	19.91	86.3	22.30	87.3	.0244	·6862	18.30.3	C	11 12 „
8	19.287	19.62	86.0	22.29	87.0	.0198	·6860	18.30.8	C	Midnight.
9	19.424	19.65	85.7	22.36	86.9	.0202	·6868	18.31.1	N	1 12 a. m.
10	19.699	19.58	85.4	22.40	86.5	·0189	.6873	18.31.4	N	2 12 „
11	19.699	19.73	85.4	22.47	86.3	.0214	.6880	18.31.5	N	3 12 „
12	19.630	19·81	85.3	22.48	86.1	.0227	.6881	18.31.2	N	4 12 „
13	19.630	19.80	85.4	22.52	86.3	.0226	.6886	18.31.4	L	5 12 „
14	20.659	19.84	85·3	22.66	86.0	.0232	.6901	18.32.0	L	6 12 „
15	21·345	19.85	85.7	22.61	86.3	.0234	.6896	18.31.8	L	7 12 „
16	21.345	20.08	86.3	22.40	86.5	.0271	.6873	18.30.4	L	8 12 „
17	20.522	20.43	87.4	22.22	87.3	.0319	.6853	18.29.0	C	9 12 „
18	19·287	20.63	88.5	22.04	88.0	.0361	.6833	18.27.7	C	10 12 „
19	19.395	20.69	88.9	22.41	88.5	.0371	.6830	18.27.5	C	11 12 „
20	17·572	20.58	89·0	21.95	89.0	.0353	.6823	18.27.4	C	Noon.
21	17·915	20.44	87.3	21.93	89.3	.0331	.6821	18.27.6	N	1 12 p. m.
22	18.670	20.34	89.5	22.09	89.8	.0314	.6838	18.28.6	N	2 12 „
23	19.561	20.33	89.8	22.10	90.0	·0314	·6840	18.28.7	N	3 12 „
MAY 1ST—Noon.	19.836	20·19	89.5	22.05	90·1	.0290	.6834	18.28.6	N	4 12 „
1	19.904	20.03	88.9	21.95	89.7	.0263	.6823	18.28.6	L	5 12 „
2	19.493	19.93	88.1	21.88	89.3	.0247	.6815	18.28.4	L	6 12 „
3	19.150	19.75	87.5	21.85	88.9	.0218	.6812	18.28.6	L	7 12 „
4	18.944	19.76	87.4	21.90	88.6	.0220	.6819	18.28.9	L	8 12 „
5	18.944	19.83	87.3	22.01	88.3	.0230	.6830	18.29.3	C	9 12 „
6	19·013	19.69	87.0	22.12	88·0	·0208	.6842	18.30.0	C	10 12 „
7	19.081	19.71	86.8	22.13	87.8	.0201	.6843	18.30.2	C	11 12 „
8	19.150	19.85	86.6	22.07	87.7	.0234	.6836	18.29.5	C	Midnight.
9	19·493	19.98	86.6	22.08	87.5	.0255	.6837	18.29.2	N	1 12 a. m.
10	19.630	19.85	86.8	22.12	87.2	.0234	.6842	18.29.7	N	2 12 „
11	19.767	19.84	86·7	22.15	87.0	·0232	.6845	18.29.9	N	3 12 „
12	19.630	19.80	86.4	22.20	86.6	·0226	.6851	18.30.1	N	4 12 „
13	19·904	19.85	86.2	22.26	86.6	·0234	.6857	18.30.4	L	5 12 „
14	20·385	19.94	86.3	22.29	86.3	.0249	.6860	18.30.1	L	6 12 „
15	21.071	20.00	86.4	22.35	86.3	·0259	.6867	18.30.3	L	7 12 „
16	21.415	20.27	86.9	22.25	86.6	·0304	.6856	18.29.4	L	8 12 „
17	20·522	20·76	87.8	22.02	87·3	.0384	.6831	18.27.4	C	9 12 „
18	18·944	20.61	88.0	22.01	87.5	.0358	·6880	18.27.6	C	10 12 „
19	17.778	20.74	88.8	21.86	88·1	.0380	·6813	18.26.7	C	11 12 „
20	17.023	20.70	89.0	21.86	88.5	.0374	.6813	18.26.7	C	Noon.
21	17.778	20.68	89.4	22.00	89.0	·0369	.6829	18.27.4	N	1 12 p. m.
22	18·532	20.44	89.6	22.01	89.2	·0331	.6830	18.28.0	N	2 12 „
23	19.356	20·37	89.7	21.99	89.6	.0320	.6827	18.28.0	N	3 12 „
MAY 3RD—Noon.	19.767	20.40	90.4	21.47	90.9	.0325	.6770	18.25.6	L	4 12 „
1	19.493	20.29	89.9	21.26	90·4	.0306	.6747	18·25.1	L	5 12 „
2	19.081	20.01	89.3	21.29	89.7	.0260	.6750	18.25.8	L	6 12 „
3	18.875	19.72	88.6	21.23	89.3	.0216	.6744	18.26.0	L	7 12 „
4	18·944	19.67	88.1	21.31	88.7	·0206	.6753	18.26.6	N	8 12 „
5	18·944	19.77	87.9	21.37	88.4	.0222	.6759	18.26.6	L	9 12 „
6	19.356	19.81	87.7	21.47	88·2	.0227	.6770	18.26.9	L	10 12 „
7	19.356	19.91	87.4	21.47	87.8	·0244	.6770	18.26.8	L	11 12 „
8	19.356	19.86	87·1	21.54	87.4	.0236	.6778	18.27.1	L	Midnight.
9	19·424	19.84	86.9	21.61	87.1	.0232	.6786	18.27.5	C	1 12 a. m.
10	19.493	19.84	86.7	21.76	87·1	.0232	.6802	18.28.1	C	2 12 „
11	19.493	19.86	86.6	21.71	87·0	·0236	.6797	18.27.9	C	3 12 „

On the 30th, at about 19h., Dip as obtained by Observation was 18°55'0.
On the 1st, at about 19h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 3RD TO 5TH MAY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
MAY 3RD—12	20·179	19.75	86°0	21.78	86°6	8.0218	2.6804	18°28'3	C	4 12 a. m.
13	20.110	19.80	86.3	21.89	86.4	.0226	.6816	18.28.7	N	5 12 „
14	21·208	19.82	85.8	21.99	86.3	.0230	.6827	18.29.2	N	6 12 „
15	21.758	19.92	86.2	21.80	86.6	.0247	.6807	18.28.1	N	7 12 „
16	20.659	20.20	86.6	21.55	86.8	.0292	.6779	18.26.4	N	8 12 „
17	19.356	20.56	87.4	21.38	87.2	.0351	.6760	18.24.9	L	9 12 „
18	17.915	20.72	88·0	21.31	87.5	.0378	.6753	18.24.4	L	10 12 „
19	16.886	20.77	89.0	21.19	88.4	.0386	.6739	18.23.6	L	11 21 „
20	16.406	20.76	89.7	21.21	88.9	.0384	.6742	18.23.9	L	Noon.
21	17.503	20·62	89.9	21.48	89.4	.0361	.6771	18.25.2	C	1 12 p. m.
22	19.081	20.44	90.0	21.60	90.0	.0331	.6785	18.26.2	C	2 12 „
23	19.973	20.27	90.0	21.60	90.0	.0304	.6785	18.26.6	C	3 12 „
MAY 4TH—Noon.	20.247	20.21	90.1	21.43	90.4	.0293	.6766	18.25.9	C	4 12 „
1	19.938	20.11	90.0	21.21	90.2	.0277	.6742	18.25.2	N	5 12 „
2	19.218	19.96	89.3	21.08	90.0	.0253	.6727	18.25.0	N	6 12 „
3	18.807	19.80	88.9	21.19	89.5	.0226	.6739	18.25.7	N	7 12 „
4	18.807	19.78	88.5	21.16	89.0	.0222	.6736	18.25.7	N	8 12 „
5	19.013	19.80	88.3	21.15	88.9	.0226	.6735	18.25.6	L	9 12 „
6	19.218	19.81	88.0	21.18	88.6	.0227	.6738	18.25.7	L	10 12 „
7	19.287	19.86	87.9	21.24	88.4	·0236	.6745	18.25.9	L	11 12 „
8	19.630	19.82	87.6	21.30	87.8	.0230	.6752	18.26.2	L	Midnight.
9	19.664	19.78	87.4	21.28	87.5	.0222	.6749	18.26.2	C	1 12 a. m.
10	19.836	19.74	87.1	21.32	87.3	.0216	.6754	18.26.4	C	2 12 „
11	19 904	19.80	87.0	21.58	87.1	.0226	.6782	18.27.3	C	3 12 „
12	19.836	19.74	86.8	21.59	87.0	.0216	.6783	18.27.5	C	4 12 „
13	19.699	19.82	86.7	21.66	87.0	.0230	.6791	18.27.7	N	5 12 „
14	20.042	19.77	86.3	21.81	86.6	.0222	.6808	18.28.5	N	6 12 „
15	20.590	19.81	86.3	21.87	86.2	.0227	.6814	18.28.6	N	7 12 „
16	20.590	20.02	86.6	21.81	86.3	.0263	.6808	18.28·0	N	8 12 „
17	19.150	20.31	87.0	21.55	86.6	.0309	.6779	18.26.2	L	9 12 „
18	17.366	20.61	87.6	21.43	87.0	.0358	.6766	18.25.0	L	10 12 „
19	16.543	20.73	88·6	21.41	87.8	.0378	.6764	18.24.7	L	11 12 „
20	16.612	20.66	88.9	21.59	88.0	.0367	.6783	18.25.6	L	Noon.
21	17·435	20.64	89.4	21.71	88.6	.0363	.6797	18.26.3	C	1 12 p. m.
22	18.464	20.49	90.0	21.59	89.6	.0339	.6783	18.26.0	C	2 12 „
23	18.875	20.31	90.1	21.42	90.0	.0309	.6764	18.25.6	C	3 12 „
MAY 5TH—Noon.	19.218	20.24	90.1	21.35	90.3	.0298	.6757	18.25.6	C	4 12 „
1	18.738	20.19	89.8	21.20	90.0	.0290	.6741	18.25.3	N	5 12 „
2	18.807	20.05	89.4	21.30	90.0	.0267	.6752	18.25.7	N	6 12 „
3	18.807	19.83	88.5	21.30	89.2	.0234	.6752	18.26·2	N	7 12 „
4	18.878	19.84	88.1	21.17	88.9	.0232	.6737	18.25.7	N	8 12 „
5	18.944	19.80	87.9	21.21	88.6	.0226	.6742	18.25.8	L	9 12 „
6	18.878	19.99	87.6	21.32	88.4	.0257	.6754	18.25.9	L	10 12 „
7	18.807	20.01	87.3	21.33	88·0	.0260	.6755	18.26.0	L	11 12 „
8	18·944	19.99	87.0	21.43	87.7	·0257	.6766	18.26.3	L	Midnight.
9	19.356	19.93	86.8	21.48	87.6	.0247	.6771	18.26.6	C	1 12 a. m.
10	19.561	19.93	86.5	21.47	87.2	.0247	.6770	18.26.6	C	2 12 „
11	19.699	20.00	86.5	21.36	87.1	.0259	.6758	18.26.1	C	3 12 „
12	19.699	19.94	86.0	21.36	87.0	.0249	.6758	18.26.2	C	4 12 „
13	19.630	19.95	85.8	21.41	87.0	.0251	.6764	18.26.3	N	5 12 „
14	19.904	19.89	85.8	21.60	86.8	.0240	.6785	18.27.4	N	6 12 „
15	20.796	19.95	86.1	21.54	86.8	.0251	.6778	18.26.9	N	7 12 „
16	20.728	20.15	87.0	21.36	87.0	.0284	.6758	18.25.6	N	8 12 „
17	19·424	20.41	87.5	21.07	87.4	.0326	.6726	18.23.9	L	9 12 „
18	18.189	20.49	88.1	21.00	87.9	.0339	.6719	18.23.5	L	10 12 „
19	17.229	20·56	88.8	20.96	88.7	.0351	.6714	18.23.1	L	11 12 „
20	17.229	20.58	89.4	21.00	89.2	.0353	.6719	18.23.3	L	Noon.
21	17.915	20.59	89.8	21.10	89.9	.0355	.6730	18.23.7	C	1 12 p. m.
22	18.395	20.37	89.7	21.05	90.0	.0320	.6724	18.23.9	C	2 12 „
23	18.070	20.22	89.0	29.95	90.1	.0296	.6713	18.23.8	C	3 12 „

On the 4th, at about 19h., Dip as obtained by Observation was 19°05'3.

DAILY OBSERVATIONS FROM 6TH TO 8TH MAY 1857.

DATE. Göttingen Mean Time, 1857.	Eastern Declination.	Horizontal Force Magneto-meter. — Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. — Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. — In English Units.	Absolute Vertical Force. — In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
MAY 6TH—Noon.	18'670	20.20	88°8	20.80	90°0	8.0292	2.6697	18°23'3	C	4 12 p. m.
1	17.503	20.26	88.0	20.68	89.4	.0302	.6683	18.22.6	N	5 12 „
2	17.709	19.92	87.2	20.77	88.9	.0247	.6693	18.23.6	N	6 12 „
3	17.984	19.66	86.8	20.85	88.2	.0204	.6702	18.24.6	N	7 12 „
4	18.532	19.52	86.4	20.99	87.9	.0181	.6717	18.25.6	N	8 12 „
5	18.944	19.37	86.1	21.07	87.4	.0157	.6727	18.26.1	L	9 12 „
6	19.561	19.23	86.1	21.16	87.4	.0122	.6736	18.27.0	L	10 12 „
7	19.904	19.35	86.0	21.22	87.3	.0153	.6743	18.26.9	L	11 12 „
8	20.179	19.27	85.9	21.21	87.0	.0130	.6742	18.27.1	L	Midnight.
9	20.316	19.34	85.7	21.26	87.0	.0151	.6747	18.27.1	C	1 12 a. m.
10	20.453	19.28	85.5	21.33	86.9	.0130	.6755	18.27.7	C	2 12 „
11	20.453	19.48	85.4	21.47	86.8	.0173	.6770	18.27.7	C	3 12 „
12	19.836	19.84	85.2	21.42	86.5	.0232	.6765	18.26.7	C	4 12 „
13	20.042	19.93	85.0	21.54	86.2	.0247	.6778	18.26.9	N	5 12 „
14	20.796	19.99	85.0	21.68	86.0	.0257	.6793	18.27.4	N	6 12 „
15	21.415	20.13	85.3	21.68	86.0	.0280	.6793	18.27.2	N	7 12 „
16	20.938	20.50	86.0	21.50	86.5	.0341	.6774	18.25.6	N	8 12 „
17	19.561	20.85	87.0	21.27	87.0	.0398	.6739	18.23.5	L	9 12 „
18	18.258	20.94	87.9	21.21	87.6	.0413	.6742	18.23.5	L	10 12 „
19	17.572	20.80	88.4	20.98	88.0	.0390	.6716	18.22.7	L	11 12 „
20	17.160	20.55	89.0	21.12	88.7	.0349	.6732	18.23.8	L	Noon.
21	17.298	20.41	89.0	21.23	88.7	.0326	.6744	18.24.6	C	1 12 p. m.
22	17.709	20.43	88.8	21.17	89.0	.0329	.6737	18.24.4	C	2 12 „
23	18.670	20.05	88.5	21.42	89.0	.0267	.6765	18.26.2	C	3 12 „
MAY 7TH—Noon.	19.013	20.08	88.4	21.27	89.1	.0271	.6748	18.25.6	C	4 12 „
1	17.778	21.25	87.9	20.87	89.0	.0464	.6704	18.21.3	N	5 12 „
2	15.240	21.20	87.0	20.85	88.3	.0456	.6702	18.21.2	N	6 12 „
3	16.406	19.82	86.6	21.10	88.0	.0230	.6730	18.25.4	N	7 12 „
4	18.601	19.43	86.0	21.27	87.4	.0165	.6748	18.26.9	N	8 12 „
5	19.013	18.65	85.9	21.22	87.2	.0038	.6743	18.28.4	L	9 12 „
6	18.875	18.93	85.9	21.19	87.0	.0083	.6739	18.27.7	L	10 12 „
7	19.218	18.81	85.8	21.28	86.7	.0064	.6749	18.28.3	L	11 12 „
8	19.287	18.58	85.6	21.39	86.5	.0025	.6761	18.29.1	L	Midnight.
9	18.464	19.53	85.3	21.19	86.3	.0181	.6739	18.28.4	C	1 12 a. m.
10	19.321	14.46	85.0	21.08	86.1	.0007	.6727	18.28.2	C	2 12 „
11	18.258	18.26	84.9	21.17	86.0	7.9964	.6737	18.29.2	C	3 12 „
12	18.327	18.19	84.9	21.10	85.9	.9962	.6730	18.28.9	C	4 12 „
13	17.229	18.56	84.7	21.22	85.8	8.0023	.6743	18.28.6	N	5 12 „
14	19.904	18.00	84.5	21.93	85.6	7.9932	.6821	18.32.8	N	6 12 „
15	20.865	18.39	85.0	21.87	85.8	.9995	.6814	18.31.6	N	7 12 „
16	22.444	17.57	85.8	21.68	86.0	.9839	.6795	18.33.0	N	8 12 „
17	21.139	17.77	86.7	21.15	86.7	.9871	.6735	18.30.3	L	9 12 „
18	18.944	18.00	87.4	20.95	87.2	.9932	.6713	18.28.6	L	10 12 „
19	19.013	17.70	88.1	20.86	87.9	.9883	.6703	18.28.9	L	11 12 „
20	16.406	17.99	88.8	20.33	88.4	.9902	.6645	18.26.4	L	Noon.
21	14.828	17.70	89.0	20.42	89.1	.9883	.6655	18.27.1	C	1 12 p. m.
22	17.503	17.88	89.5	20.84	89.7	.9888	.6701	18.28.6	C	2 12 „
23	17.984	18.16	89.6	21.02	90.2	.9958	.6721	18.28.5	C	3 12 „
MAY 8TH—Noon.	18.601	18.19	89.2	21.06	90.3	7.9962	.6725	18.28.7	C	4 12 „
1	19.218	18.04	88.4	21.11	89.7	.9938	.6731	18.29.2	N	5 12 „
2	20.590	18.51	88.3	21.04	88.8	8.0014	.6723	18.28.0	N	6 12 „
3	19.630	18.51	87.8	20.91	88.2	.0014	.6709	18.28.4	N	7 12 „
4	19.561	18.31	86.0	20.97	87.7	7.9982	.6715	18.28.1	N	8 12 „
5	19.904	18.36	85.8	21.06	87.2	.9991	.6725	18.28.3	L	9 12 „
6	19.973	18.41	85.6	21.13	87.0	.9998	.6733	18.28.5	L	10 12 „
7	20.316	18.56	85.5	21.15	86.9	8.0023	.6735	18.28.3	L	11 12 „
8	20.453	18.40	85.3	21.18	86.7	7.9997	.6728	18.28.7	L	Midnight.
9	20.796	18.61	85.3	20.90	86.7	8.0031	.6708	18.27.1	C	1 12 a. m.
10	20.796	18.71	85.0	21.09	86.7	.0047	.6728	18.27.6	C	2 12 „
11	20.796	18.67	85.0	20.89	86.5	.0042	.6706	18.26.9	C	3 12 „

On the 7th, at about 19h., Dip as obtained by Observation was 18°55'9.

DAILY OBSERVATIONS FROM 8TH TO 11TH MAY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observer.	DATE. Bombay Civil Time. 1857.
h.										h. m.
MAY 8TH—12	20°865	18.59	85°0	21.01	86°5	8.0027	2.6720	18°27'6	C	4 12 a. m.
13	20.590	18.66	85.0	20.98	86.1	.0040	.6717	18.27.4	N	5 12 „
14	21.276	18.79	85.2	21.12	86.0	.0060	.6732	18.27.6	N	6 12 „
15	22.101	18.87	85.3	21.16	86.0	.0075	.6736	18.27.6	N	7 12 „
16	22.101	19.29	86.2	20.94	86.3	.0130	.6712	18.25.9	N	8 12 „
17	20.728	19.58	87.2	20.60	87.2	.0189	.6675	18.23.7	L	9 12 „
18	18.944	19.90	88.1	20.39	88.0	.0243	.6651	18.22.2	L	10 12 „
19	18.052	19.99	89.0	20.40	88.7	.0277	.6653	18.21.8	L	11 12 „
20	17.092	19.88	89.6	20.39	89.1	.0238	.6651	18.22.2	L	Noon.
21	17.435	19.63	89.9	20.49	89.8	.0208	.6664	18.22.9	C	1 12 p. m.
22	17.778	19.32	90.0	20.60	90.3	.0149	.6675	18.24.2	C	2 12 „
23	18.395	19.20	90.3	20.52	90.5	.0118	.6666	18.24.2	C	3 12 „
MAY 10TH-Noon.	19.699	19.52	90.7	20.40	91.3	.0181	.6653	18.23.1	C	4 12 „
1	19.630	19.26	90.0	20.24	90.7	.0128	.6635	18.23.0	C	5 12 „
2	19.493	19.14	89.1	20.15	90.1	.0118	.6625	18.22.7	C	6 12 „
3	19.287	19.05	88.2	20.01	89.4	.0103	.6610	18.22.4	N	7 12 „
4	19.031	19.06	87.8	20.57	89.0	.0105	.6671	18.24.6	N	8 12 „
5	19.699	19.17	87.4	20.42	88.6	.0124	.6655	18.23.9	L	9 12 „
6	20.179	19.84	87.4	20.49	88.4	.0249	.6662	18.22.3	L	10 12 „
7	20.865	18.99	87.2	20.60	88.1	.0093	.6675	18.25.0	L	11 12 „
8	21.482	18.83	87.0	20.72	87.9	.0067	.6638	18.25.8	L	Midnight.
9	21.619	19.28	86.9	20.68	87.9	.0130	.6683	18.24.8	C	1 12 a. m.
10	21.551	19.37	86.6	20.83	87.8	.0157	.6700	18.25.1	C	2 12 „
11	21.139	19.32	86.5	20.83	87.6	.0149	.6700	18.25.2	C	3 12 „
12	21.139	19.23	86.1	20.90	87.3	.0122	.6708	18.25.9	C	4 12 „
13	21.482	19.28	86.0	20.96	87.0	.0130	.6714	18.26.0	N	5 12 „
14	22.581	19.16	86.0	21.21	87.0	.0122	.6742	18.27.2	N	6 12 „
15	22.787	19.01	86.2	21.14	86.8	.0096	.6734	18.27.2	N	7 12 „
16	22.168	19.47	86.8	20.83	87.0	.0173	.6700	18.25.0	N	8 12 „
17	21.071	19.14	87.7	20.67	87.4	.0118	.6682	18.24.8	L	9 12 „
18	19.973	19.37	88.6	20.96	88.0	.0149	.6714	18.25.9	L	10 12 „
19	18.670	19.54	89.3	20.72	88.8	.0183	.6638	18.24.4	L	11 12 „
20	17.846	19.65	89.9	20.68	89.2	.0204	.6683	18.23.9	L	Noon.
21	17.846	19.33	90.2	20.80	90.0	.0149	.6697	18.25.1	C	1 12 p. m.
22	18.189	19.58	90.5	20.70	90.4	.0189	.6686	18.24.1	C	2 12 „
23	18.670	19.53	90.4	20.62	90.6	.0181	.6677	18.24.0	C	3 12 „
MAY 11TH-Noon.	18.670	19.58	90.2	20.50	90.8	.0189	.6664	18.23.2	C	4 12 „
1	19.767	18.81	89.6	20.46	90.3	.0064	.6659	18.24.8	N	5 12 „
2	19.767	18.87	88.5	20.40	90.0	.0075	.6653	18.24.4	N	6 12 „
3	20.110	18.87	87.8	20.48	89.2	.0075	.6661	18.24.6	N	7 12 „
4	20.522	18.53	87.3	20.57	88.9	.0017	.6671	18.25.7	N	8 12 „
5	20.728	18.64	87.2	20.56	88.6	.0036	.6670	18.25.5	L	9 12 „
6	20.590	18.82	87.0	20.61	88.2	.0067	.6676	18.25.3	L	10 12 „
7	20.933	18.87	86.9	20.72	88.1	.0075	.6688	18.25.7	L	11 12 „
8	20.933	18.68	86.8	20.79	87.8	.0042	.6695	18.26.5	L	Midnight.
9	20.933	18.73	86.4	20.78	87.8	.0050	.6694	18.26.2	C	1 12 a. m.
10	21.826	18.65	86.0	20.91	87.5	.0038	.6709	18.27.0	C	2 12 „
11	21.826	18.89	85.7	21.04	87.2	.0077	.6723	18.27.1	C	3 12 „
12	20.728	18.89	85.5	20.91	87.0	.0077	.6709	18.26.5	C	4 12 „
13	21.276	18.85	85.4	20.90	86.8	.0071	.6708	18.26.6	N	5 12 „
14	21.688	19.12	85.6	20.98	86.6	.0116	.6716	18.26.2	N	6 12 „
15	22.787	18.97	86.0	21.07	86.7	.0091	.6726	18.27.0	N	7 12 „
16	22.581	19.16	86.8	20.71	87.0	.0122	.6687	18.25.1	N	8 12 „
17	21.002	19.48	87.8	20.39	87.8	.0173	.6651	18.23.1	L	9 12 „
18	19.287	19.78	88.7	20.35	88.4	.0222	.6647	18.22.3	L	10 12 „
19	18.121	19.70	89.3	20.33	89.0	.0210	.6645	18.22.4	L	11 12 „
20	17.915	19.56	89.6	20.30	89.3	.0187	.6642	18.22.4	L	Noon.
21	18.052	19.62	89.9	20.45	90.0	.0198	.6658	18.23.0	C	1 12 p. m.
22	18.738	19.46	90.0	20.57	90.4	.0171	.6671	18.23.8	C	2 12 „
23	19.150	19.35	90.1	20.88	90.9	.0153	.6661	18.23.6	C	3 12 „

On the 8th, at about 19h., Deflection Observations were taken.
On the 11th, at about 19h., Dip as obtained by Observation was 18°47'8.

DAILY OBSERVATIONS FROM 12TH TO 14TH MAY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. — Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. — Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. — In English Units.	Absolute Vertical Force. — In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
MAY 12TH-Noon.	19'630	19.23	90°0	20.51	90°9	8.0122	2.6665	18°24'2	C	4 12 p. m.
1	19.836	19.13	89.5	20.41	90.3	.0116	.6654	18.23.8	N	5 12 ,,
2	19.904	19.04	88.5	20.32	90.0	.0101	.6644	18.23.7	N	6 12 ,,
3	20.110	19.01	87.7	20.38	89.2	.0096	.6650	18.24.0	N	7 12 ,,
4	20.458	18.90	87.2	20.46	88.8	.0079	.6659	18.24.6	N	8 12 ,,
5	20.385	18.98	87.0	20.49	88.4	.0091	.6662	18.24.4	L	9 12 ,,
6	20.453	18.90	86.7	20.57	88.3	.0079	.6671	18.25.0	L	10 12 ,,
7	20.385	19.31	86.7	20.58	88.0	.0146	.6672	18.24.0	L	11 12 ,,
8	20.590	19.16	86.7	20.68	87.7	.0122	.6683	18.24.9	L	Midnight.
9	20.796	19.22	86.5	20.68	87.6	.0122	.6683	18.24.9	C	1 12 a. m.
10	20.796	19.33	86.3	20.65	87.5	.0149	.6680	18.24.4	C	2 12 ,,
11	20.659	19.43	86.3	20.62	87.5	.0165	.6672	18.23.8	C	3 12 ,,
12	20.385	19.33	86.0	20.62	87.2	.0149	.6672	18.24.0	C	4 12 ,,
13	20.385	19.23	85.9	20.51	87.0	.0122	.6665	18.24.2	N	5 12 ,,
14	20.590	19.25	85.8	20.90	86.5	.0126	.6708	18.25.8	N	6 12 ,,
15	21.758	19.20	86.0	20.95	86.8	.0118	.6713	18.26.1	N	7 12 ,,
16	22.168	19.42	86.8	20.71	87.0	.0165	.6687	18.24.5	N	8 12 ,,
17	21.345	19.71	87.5	20.31	87.5	.0211	.6643	18.22.3	L	9 12 ,,
18	19.356	19.94	88.1	20.06	88.0	.0249	.6615	18.20.6	L	10 12 ,,
19	17.915	20.03	88.9	20.24	88.5	.0263	.6635	18.20.3	L	11 12 ,,
20	17.366	20.10	89.6	20.28	89.2	.0276	.6638	18.21.2	L	Noon.
21	16.955	20.05	90.0	20.44	89.8	.0267	.6657	18.22.1	C	1 12 p. m.
22	17.846	19.96	90.4	20.52	90.5	.0253	.6666	18.22.5	C	2 12 ,,
23	18.327	19.73	90.3	20.50	90.7	.0214	.6664	18.23.0	C	3 12 ,,
MAY 13TH-Noon.	18.670	19.30	90.0	20.44	90.7	.0145	.6657	18.23.6	C	4 12 ,,
1	18.875	19.40	89.2	20.37	90.2	.0161	.6649	18.23.1	N	5 12 ,,
2	19.287	19.20	88.2	20.39	89.5	.0118	.6651	18.23.7	N	6 12 ,,
3	19.150	19.20	87.3	20.37	88.9	.0118	.6649	18.23.6	N	7 12 ,,
4	19.904	18.99	86.8	20.45	88.2	.0093	.6658	18.24.4	N	8 12 ,,
5	19.699	19.04	86.5	20.42	87.9	.0101	.6655	18.24.2	L	9 12 ,,
6	20.247	19.14	86.3	20.49	87.7	.0118	.6662	18.24.0	L	10 12 ,,
7	20.042	19.17	86.2	20.59	87.4	.0124	.6673	18.24.5	L	11 12 ,,
8	20.110	19.05	86.0	20.62	87.1	.0103	.6677	18.25.0	L	Midnight.
9	20.247	19.08	85.8	20.76	87.1	.0107	.6694	18.25.5	C	1 12 a. m.
10	20.487	19.09	85.7	20.74	87.0	.0109	.6690	18.25.4	C	2 12 ,,
11	20.728	19.19	85.4	20.72	86.7	.0126	.6688	18.25.0	C	3 12 ,,
12	20.659	19.28	85.3	20.88	86.6	.0130	.6705	18.25.7	C	4 12 ,,
13	20.247	19.27	85.2	20.84	86.1	.0130	.6701	18.25.5	N	5 12 ,,
14	20.728	19.09	85.2	21.11	86.0	.0109	.6731	18.27.0	N	6 12 ,,
15	21.826	19.42	85.6	21.19	86.2	.0165	.6739	18.26.5	N	7 12 ,,
16	22.305	19.54	86.3	21.10	86.6	.0183	.6731	18.26.1	N	8 12 ,,
17	21.551	19.84	87.2	20.70	87.3	.0232	.6686	18.23.6	L	9 12 ,,
18	19.767	19.92	88.1	20.30	87.9	.0247	.6642	18.21.6	L	10 12 ,,
19	17.709	20.21	89.0	20.12	88.6	.0293	.6622	18.20.3	L	11 12 ,,
20	16.612	20.27	89.5	20.25	89.1	.0304	.6636	18.20.8	L	Noon.
21	16.357	20.19	90.0	20.33	90.0	.0290	.6645	18.21.3	C	1 12 p. m.
22	17.160	20.06	90.2	20.42	90.5	.0259	.6655	18.22.1	C	2 12 ,,
23	18.327	19.87	90.2	20.44	90.8	.0238	.6657	18.22.5	C	3 12 ,,
MAY 14TH-Noon.	19.561	19.70	90.0	20.42	90.7	.0210	.6655	18.21.8	C	4 12 ,,
1	19.836	19.37	89.1	20.31	90.2	.0157	.6643	18.22.9	N	5 12 ,,
2	19.287	19.32	88.0	20.28	89.3	.0149	.6639	18.22.8	N	6 12 ,,
3	19.218	19.10	87.4	20.36	88.6	.0112	.6648	18.23.8	N	7 12 ,,
4	19.424	19.05	86.8	20.44	88.0	.0103	.6657	18.24.3	N	8 12 ,,
5	19.904	19.01	86.5	20.53	87.7	.0096	.6667	18.24.6	L	9 12 ,,
6	20.247	19.06	86.1	20.59	87.3	.0105	.6673	18.24.7	L	10 12 ,,
7	20.453	19.13	86.0	20.66	87.0	.0116	.6681	18.24.8	L	11 12 ,,
8	20.247	19.15	85.7	20.73	87.0	.0120	.6689	18.25.1	L	Midnight.
9	20.179	19.22	85.5	21.11	87.0	.0122	.6731	18.26.8	C	1 12 a. m.
10	20.110	19.28	85.3	21.03	86.6	.0130	.6722	18.26.3	C	2 12 ,,
11	20.179	19.28	85.1	21.22	86.5	.0130	.6743	18.27.2	C	3 12 ,,

DAILY OBSERVATIONS FROM 14TH TO 17TH MAY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. — Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. — Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. — In English Units.	Absolute Vertical Force. — In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
MAY 14TH—12	19°870	19.39	85°0	21.06	86°3	8.0159	2.6725	18°26'1	C	4 12 a. m.
13	20.316	19.32	84.8	21.14	86.0	.0149	.6734	18.26.5	N	5 12 „
14	20.728	19.39	84.9	21.32	85.8	.0159	.6754	18.27.2	N	6 12 „
15	22.032	19.64	85.3	21.38	86.0	.0200	.6760	18.26.9	N	7 12 „
16	22.237	19.86	85.7	21.09	86.2	.0236	.6728	18.25.2	N	8 12 „
17	20.728	20.14	86.7	20.81	86.9	.0282	.6698	18.23.7	L	9 12 „
18	19.150	20.36	87.6	20.70	87.4	.0318	.6686	18.22.4	L	10 12 „
19	17.778	20.41	88.3	20.65	88.2	.0326	.6680	18.22.1	L	11 12 „
20	17.092	20.40	89.0	20·74	88.8	.0325	.6690	18.22.5	L	Noon.
21	17.503	20.35	89.5	20.99	89.6	.0316	.6717	18.23.7	C	1 12 p. m.
22	18.464	20.22	89.8	21.13	90.0	.0296	.6733	18.24.6	C	2 12 „
23	19.150	19.98	89.6	21.11	90.4	.0255	.6731	18.25.0	C	3 12 „
MAY 15TH—Noon.	19.424	19.92	89.4	20.96	90.4	.0247	.6714	18.24.4	C	4 12 „
1	19.424	19.62	88.8	20.76	90.0	.0198	.6692	18.24.2	N	5 12 „
2	19.218	19.42	87.6	20.68	89.2	.0165	.6783	18.24.3	N	6 12 „
3	19.356	19.41	87.0	20.76	88.6	.0162	.6792	18.24.7	N	7 12 „
4	19.424	19.38	86.4	20.84	88.0	.0157	.6701	18.25.1	N	8 12 „
5	19.630	19.33	86.0	20.88	87.5	.0149	.6705	18.25.4	L	9 12 „
6	19.699	19.39	86.0	20.92	87.4	.0159	.6710	18.25.5	L	10 12 „
7	19.836	19.41	85.8	20.99	87.2	.0162	.6717	18.25.8	L	11 12 „
8	19.836	19.28	85.5	21.03	86.9	.0130	.6722	18.26.3	L	Midnight.
9	20.042	19.18	85.2	21.19	86.7	.0124	.6739	18.27.1	C	1 12 a. m.
10	19.973	19.15	85.0	21.26	86.6	.0120	.6747	18.27.5	C	2 12 „
11	20.042	19.53	85.0	21.10	86.4	.0181	.6730	18.26.1	C	3 12 „
12	19.973	19.51	84.9	21.25	86.2	.0178	.6746	18.26.7	C	4 12 „
13	20.179	19.54	84.9	21.38	86.0	.0183	.6760	18.27.2	N	5 12 „
14	20.933	19.57	84.8	21.43	85.8	.0189	.6766	18.27.2	N	6 12 „
15	21.826	19.68	85.3	21.42	85.9	.0206	.6765	18.27.0	N	7 12 „
16	22.032	19.88	86.0	21.29	86.2	.0238	.6750	18.26.1	N	8 12 „
17	21.139	20.20	86.9	21.12	86·6	.0292	.6732	18.24.6	L	9 12 „
18	19.699	20.37	87.6	20.96	87.2	.0320	.6714	18.23.6	L	10 12 „
19	18.258	20.44	88.3	20.82	88.0	.0331	.6699	18.22.8	L	11 12 „
20	17.641	20.42	89.0	20.88	88.7	.0329	.6705	18.23.1	L	Noon.
21	18.258	20.42	89.4	20.98	89.4	.0329	.6716	18.23.5	C	1 12 p. m.
22	19.218	20·21	89.6	20.97	90.0	.0291	.6715	18.24.0	C	2 12 „
23	19.356	20.10	89.8	20.91	90.3	.0268	.6709	18.24.0	C	3 12 „
MAY 17TH—Noon.	19.561	20.04	89.7	20.87	90.6	.0265	.6704	18.23.8	C	4 12 „
1	19.356	19.86	88.8	20.75	90.0	.0236	.6691	18.23.7	C	5 12 „
2	19.150	19.74	88.0	20.67	89.6	.0216	.6682	18.23.5	C	6 12 „
3	19.150	19.63	87.3	20.69	89.0	.0198	.6684	18.23.9	C	7 12 „
4	19.013	19.69	87.1	20.81	88.5	.0208	.6698	18.24.4	C	8 12 „
5	19.287	19.63	86.8	20.84	88.0	.0198	.6701	18.24.6		9 12 „
6	19.493	19.64	86.3	20.93	87.8	.0200	.6711	18.25.0		10 12 „
7	19.767	19.57	86.1	20.97	87.4	.0189	.6715	18.25.3		11 12 „
8	19.767	19.57	86.0	20.92	87.2	.0189	.6710	18.25.1	N	Midnight.
9	19.356	19.67	86.0	20.85	87.2	.0206	.6702	18.24.5	C	1 12 a. m.
10	19.904	19.56	85.9	20.86	87.0	.0187	.6703	18.24.8	C	2 12 „
11	19.973	19.52	85.7	20.93	87.0	.0181	.6711	18.25.3	C	3 12 „
12	19.973	19.43	85.5	20.76	86.9	.0165	.6692	18.24.6	C	4 12 „
13	19.973	19.63	85.4	20.80	86.5	.0198	.6697	18.24.5	N	5 12 „
14	20.933	19.52	85.3	21.13	86.3	.0181	.6733	18.26.2	N	6 12 „
15	21.826	19.51	85.7	21.10	86.5	.0178	.6730	18.26.1	N	7 12 „
16	21.551	19.79	86.3	20.91	87.0	.0224	.6709	18.24.6	N	8 12 „
17	20.796	20.22	87.4	20.57	87.3	.0296	.6671	18.22.1	L	9 12 „
18	19.561	20.56	88.0	20.29	88.0	.0351	.6640	18.20.3	L	10 12 „
19	18.052	20.86	88.9	20.30	88.4	.0390	.6642	18.19.8	L	11 12 „
20	17.298	20.86	89.4	20.33	89.1	.0390	.6645	18.20.0	L	Noon.
21	16.817	20.81	89.9	20.49	89.8	.0391	.6662	18.20.5	C	1 12 p. m.
22	17.641	20.57	90.0	20.65	90.2	.0353	.6680	18.21.8	C	2 12 „
23	18.601	20.36	90.0	20.60	90.5	.0318	.6675	18.22.0	C	3 12 „

On the 14th at about 19h., Dip as obtained by Observation was 19°20'2.
On the 15th, at about 19h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 18TH TO 20TH MAY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
MAY 18TH-Noon.	19'424	20.21	90°0	20.62	90°6	8.0293	2.6677	18°22'5	C	4 12 p. m.
1	19.767	20.11	89.5	20.49	90.4	.0277	.6662	18.22.0	N	5 12 ,,
2	19.150	19.97	88.6	20.30	89.9	.0255	.6642	18.21.5	N	6 12 ,,
3	18.944	19.82	88.0	20.29	89.1	.0230	.6640	18.21.9	N	7 12 ,,
4	18.807	19.80	87.5	20.26	88.8	.0226	.6637	18.21.8	N	8 12 ,,
5	19.081	19.80	87.3	20.40	88.4	.0226	.6653	18.22.4	L	9 12 ,,
6	19.356	19.85	87.2	20.54	88.1	.0234	.6668	18.22.9	L	10 12 ,,
7	20.042	19.85	87.0	20.61	87.8	.0234	.6676	18.23.2	L	11 12 ,,
8	19.973	19.89	86.8	20.63	87.7	.0240	.6683	18.23.4	L	Midnight.
9	20.453	19.94	86.6	20.72	87.4	.0249	.6688	18.23.4	C	1 12 a. m.
10	20.453	19.90	86.4	20.77	87.2	.0243	.6693	18.23.8	C	2 12 ,,
11	20.728	19.71	86.1	20.78	86.9	.0211	.6694	18.24.2	C	3 12 ,,
12	20.728	19.78	86.0	20.83	86.8	.0222	.6700	18.24.3	C	4 12 ,,
13	20.796	19.68	85.8	20.89	86.3	.0206	.6705	18.24.7	N	5 12 ,,
14	22.032	19.60	85.8	21.08	86.1	.0194	.6727	18.25.8	N	6 12 ,,
15	22.787	19.68	86.2	20.99	86.3	.0206	.6717	13.25.2	N	7 12 ,,
16	21.895	19.81	86.8	20.65	86.8	.0227	.6680	18.23.4	N	8 12 ,,
17	20.179	20.11	87.6	20.34	87.2	.0277	.6646	18.21.5	L	9 12 ,,
18.	17.572	20.26	88.4	20.14	88.0	.0302	.6624	18.20.3	L	10 12 ,,
19	16.474	20.28	89.3	20.41	88.7	.0304	.6654	18.21.5	L	11 12 ,,
20	16.749	20.59	89.9	20.70	89.3	.0355	.6687	18.22.0	L	Noon.
21	17.641	20.59	90.2	20.85	90.0	.0355	.6702	18.22.5	C	1 12 p. m.
22	18.631	20.56	90.8	20.96	90.6	.0351	.6714	18.23.1	C	2 12 ,,
23	19.356	20.28	90.9	20.93	91.0	.0304	.6711	18.23.7	C	3 12 ,,
MAY 19TH-Noon.	20.042	20.16	90.9	20.68	91.0	.0286	.6683	18.22.7	C	4 12 ,,
1	19.904	19.65	90.3	20.58	90.9	.0204	.6672	18.23.4	N	5 12 ,,
2	19.630	19.57	89.7	20.41	90.2	.0189	.6654	18.22.9	N	6 12 ,,
3	19.424	19.60	88.8	20.39	89.5	.0194	.6651	18.22.8	N	7 12 ,,
4	19.218	19.47	88.2	20.39	89.0	.0173	.6651	18.22.1	N	8 12 ,,
5	19.424	19.52	87.9	20.51	88.5	.0181	.6665	18.23.5	L	9 12 ,,
6	19.904	19.44	87.7	20.66	88.0	.0167	.6681	18.24 2	L	10 12 ,,
7	19.973	19.58	87.4	20.68	87.7	.0189	.6683	18.24.0	L	11 12 ,,
8	19.973	19.58	87.1	20.73	87.6	.0189	.6689	18.24.2	L	Midnight.
9	20.042	19.68	87.0	20.81	87.7	.0206	.6698	18.24.4	C	1 12 a. m.
10	20.042	19.72	87.0	21.00	87.7	.0214	.6719	18 25.2	C	2 12 ,,
11	20.179	19.78	86.9	20.78	87.5	.0222	.6694	18.24.1	C	3 12 ,,
12	20.316	19.79	86.8	20.71	87.4	.0224	.6687	18.23.8	C	4 12 ,,
13	20.728	19.78	86.7	20.82	87.2	.0222	.6699	18.24.2	N	5 12 ,,
14	21.826	19.73	86.6	20.83	87.0	.0214	.6700	18 24.5	N	6 12 ,,
15	22.101	19.79	86.8	20.81	87.0	.0224	.6698	18.24.2	N	7 12 ,,
16	22.168	20.09	87.3	20.66	87.2	.0273	.6681	18.22.9	N	8 12 ,,
17	21.208	20.47	88.5	20.40	88.0	.0337	.6653	18.21.0	L	9 12 ,,
18	19.630	20.67	89.1	20.26	88.5	.0369	.6637	18 20.0	L	10 12 ,,
19	18.121	20.88	90.0	20.27	89.1	.0402	.6638	18.19.6	L	11 12 ,,
20	17.778	20.45	90.3	20.37	89.6	.0333	.6649	18.20.9	L	Noon.
21	17.984	20.40	90.9	20.51	90.2	.0325	.6665	18.21.5	C	1 12 p. m.
22	18.807	20.28	91.0	20.62	90.8	.0304	.6677	18.22.4	C	2 12 ,,
23	19.836	20.30	91.0	20.55	91.0	.0308	.6669	18.21.9	C	3 12 ,,
MAY 20TH-Noon.	20.316	20.21	90.9	20.35	91.1	.0293	.6647	18.21.4	C	4 12 ,,
1	19.561	20.14	90.2	20.23	91.0	.0282	.6634	18.21.0	N	5 12 ,,
2	19.356	19.94	89.4	20.21	90.4	.0249	.6632	18.21.2	N	6 12 ,,
3	19.356	19.56	88.3	20.29	89.8	.0187	.6640	18.22.4	N	7 12 ,,
4	19.287	19.39	87.7	20.38	89.2	.0159	.6650	18.23.2	N	8 12 ,,
5	19.287	19.68	87.4	20.42	88.9	.0206	.6655	18.22.8	L	9 12 ,,
6	19.424	19.57	87.3	20.54	88.5	.0189	.6668	18.23.4	L	10 12 ,,
7	19 904	19.68	87.2	20.63	88.3	.0206	.6678	18.23.6	L	11 12 ,,
8	19.767	19.64	87.0	20.69	87.9	.0200	.6684	18.23.9	L	Midnight.
9	19.870	19.65	86.9	20.98	87.7	.0202	.6716	18.25.2	C	1 12 a. m.
10	20.110	19.60	86.6	20.98	87.6	.0194	.6716	18.25.3	C	2 12 ,,
11	19.767	19.65	86.3	21.02	87.4	.0202	.6721	18.25.4	C	3 12 ,,

On the 18th, at about 19h., Dip as obtained by Observation was 18°55'9.

DAILY OBSERVATIONS FROM 20TH TO 22ND MAY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
MAY 20TH—12	19'904	19.59	86°0	21.11	87°0	8.0191	2.6731	18°25'9	C	4 12 a. m.
13	20.179	19.60	85.9	21.27	86.8	.0194	.6748	18.26.6	N	5 12 „
14	21.276	19.65	85.7	21.37	86.4	.0202	.6759	18.26.9	N	6 12 „
15	22.237	19.84	86.2	21.45	86.8	.0232	.6768	18.26.8	N	7 12 „
16	22.512	20.11	86.8	21.32	87.2	.0277	.6754	18.25.7	N	8 12 „
17	21.482	20.41	87.8	20.96	87.9	.0326	.6764	18.23.4	L	9 12 „
18	19.836	20.55	88.5	20.71	88.2	.0349	.6687	18.22.1	L	10 12 „
19	17.503	20.65	89.2	20.49	89.0	.0365	.6662	18.20.8	L	11 12 „
20	16.269	20.69	89.9	20.58	89.4	.0371	.6672	18.21.2	L	Noon.
21	17.298	20.63	90.2	20.90	90.1	.0361	.6708	18.22.8	C	1 12 p. m.
22	18.670	20.48	90.5	21.12	90.7	.0337	.6732	18.24.0	C	2 12 „
23	20.179	20.36	90.7	21.13	91.0	.0318	.6733	18.24.3	C	3 12 „
MAY 21ST-Noon.	20.659	20.12	90.2	20.90	91.0	.0280	.6708	18.23.9	C	4 12 „
1	20.522	19.94	89.6	20.62	90.5	.0249	.6677	18.23.0	N	5 12 „
2	19.973	19.77	89.0	20.46	90.2	.0222	.6659	18.22.7	N	6 12 „
3	19.561	19.64	88.0	20.45	89.4	.0200	.6658	18.23.0	N	7 12 „
4	19.424	19.54	87.7	20.52	89.0	.0183	.6666	18.23.5	N	8 12 „
5	19.767	19.50	87.3	20.61	88.8	.0177	.6676	18.24.0	L	9 12 „
6	20.179	19.44	87.1	20.71	88.5	.0167	.6687	18.24.5	L	10 12 „
7	20.179	19.47	86.9	20.74	88.1	.0173	.6690	18.24.6	L	11 12 „
8	19.973	19.48	86.6	20.77	87.8	.0173	.6693	18.24.7	L	Midnight.
9	19.973	19.40	86.2	20.85	87.5	.0161	.6702	18.25.1	C	1 12 a. m.
10	20.316	19.42	86.0	20.74	87.4	.0165	.6690	18.24.6	C	2 12 „
11	21.074	19.40	85.9	20.79	87.2	.0161	.6695	18.24.9	C	3 12 „
12	20.453	19.39	85.7	20.91	87.0	.0159	.6709	18.25.4	C	4 12 „
13	21.139	19.39	85.5	21.10	86.8	.0159	.6730	18.26.3	N	5 12 „
14	22.305	19.50	85.6	21.20	86.6	.0177	.6741	18.26.5	N	6 12 „
15	23.060	19.66	86.2	21.01	87.0	.0204	.6720	18.25.4	N	7 12 „
16	22.649	19.90	86.9	20.64	87.3	.0243	.6679	18.23.2	N	8 12 „
17	20.933	20.16	87.9	20.38	88.0	.0286	.6650	18.21.5	L	9 12 „
18	19.013	20.43	88.7	20.24	88.6	.0329	.6635	18.20.4	L	10 12 „
19	17.709	20.53	89.5	20.20	89.2	.0345	.6631	18.19.9	L	11 12 „
20	16.886	20.65	90.0	20.23	89.7	.0365	.6634	18.19.8	L	Noon.
21	16.680	20.63	90.3	20.29	90.3	.0361	.6640	18.20.2	C	1 12 p. m.
22	17.572	20.62	90.2	20.56	90.8	.0361	.6670	18.21.3	C	2 12 „
23	18.944	20.36	90.1	20.68	90.9	.0318	.6685	18.22.4	C	3 12 „
MAY 22ND-Noon.	20.042	20.04	89.9	20.55	91.0	.0265	.6669	18.22.4	C	4 12 „
1	20.659	19.76	89.4	20.48	90.6	.0220	.6661	18.22.7	N	5 12 „
2	20.042	19.67	88.8	20.26	90.3	.0206	.6637	18.22.1	N	6 12 „
3	19.424	19.56	88.0	20.29	89.8	.0187	.6640	18.22.4	N	7 12 „
4	19.424	19.63	87.8	20.32	89.3	.0198	.6644	18.22.4	N	8 12 „
5	19.561	19.63	87.6	20.35	89.0	.0198	.6647	18.22.6	L	9 12 „
6	19.561	19.63	87.4	20.41	88.8	.0198	.6654	18.22.8	L	10 12 „
7	19.630	19.48	87.0	20.43	88.4	.0173	.6656	18.23.3	L	11 12 „
8	20.042	19.46	86.7	20.54	88.0	.0171	.6668	18.23.7	L	Midnight.
9	20.453	19.46	86.5	20.59	88.0	.0171	.6673	18.23.9	C	1 12 a. m.
10	20.899	19.43	86.3	20.63	87.7	.0165	.6678	18.24.1	C	2 12 „
11	20.042	19.74	86.3	20.73	87.7	.0216	.6689	18.23.8	C	3 12 „
12	20.179	19.76	86.4	20.75	87.6	.0220	.6691	18.23.9	C	4 12 „
13	20.728	19.70	86.1	20.91	87.1	.0210	.6709	18.24.8	N	5 12 „
14	22.032	19.67	86.1	21.10	86.7	.0206	.6730	18.25.7	N	6 12 „
15	23.198	19.69	86.5	21.11	86.9	.0208	.6731	18.25.7	N	7 12 „
16	22.787	19.90	87.0	20.82	87.3	.0243	.6699	18.24.0	N	8 12 „
17	21.551	20.24	87.9	20.46	88.0	.0298	.6659	18.21.7	L	9 12 „
18	20.316	20.40	88.4	20.23	88.3	.0325	.6634	18.20.3	L	10 12 „
19	18.395	20.53	89.3	20.01	89.0	.0345	.6610	18.19.1	L	11 12 „
20	17.503	20.65	89.9	20.17	89.6	.0365	.6627	18.19.6	L	Noon.
21	17.641	20.55	90.4	20.37	90.3	.0349	.6649	18.20.6	C	1 12 p. m.
22	18.395	20.47	90.9	20.56	90.9	.0337	.6670	18.21.6	C	2 12 „
23	19.081	20.21	90.9	20.60	91.2	.0293	.6675	18.22.4	C	3 12 „

On the 21st, at about 19h., Dip as obtained by Observation was 18°59'4.
On the 22nd, at about 19h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 24TH TO 26TH MAY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
MAY 24TH-Noon.	19′630	20.16	90°6	20.61	91°0	8.0286	2.6676	18°22′4	L	4 12 p. m.
1	20.110	19.95	89.6	20.42	90.6	.0251	.6655	18.22.2	L	5 12 „
2	19.767	19.89	89.0	20.15	90.0	.0240	.6625	18.21.2	L	6 12 „
3	19.493	19.77	88.6	20.19	89.7	.0222	.6629	18.21.5	L	7 12 „
4	19.424	19.79	88.1	20.23	89.4	.0224	.6634	18.21.7	L	8 12 „
5	19.493	19.77	87.8	20.35	89.1	.0222	.6647	18.22.3	L	9 12 „
6	19.630	20.01	87.8	20.35	89.0	.0260	.6647	18.21.8	L	10 12 „
7	19.630	19.81	87.7	20.43	88.9	.0227	.6656	18.22.5	L	11 12 „
8	20.385	19.65	87.7	20.50	88.7	.0202	.6664	18.23.1	L	Midnight.
9	20.453	19.69	87.5	20.50	88.5	.0208	.6664	18.23.0	C	1 12 a. m.
10	21.002	19.86	87.5	20.60	88.4	.0236	.6675	18.23.1	C	2 12 „
11	20.556	19.80	87.4	20.54	88.0	.0226	.6668	18.22.9	C	3 12 „
12	20.350	19.82	87.3	20.58	87.8	.0230	.6672	18.23.0	C	4 12 „
13	19.836	19.82	87.1	20.73	87.8	.0230	.6689	18.23.7	N	5 12 „
14	21.002	19.52	87.1	20.93	87.6	.0181	.6711	18.25.3	N	6 12 „
15	22.649	19.50	86.4	20.83	87.5	.0177	.6700	18.24.9	N	7 12 „
16	22.374	19.88	87.0	20.63	87.5	.0238	.6678	18.23.2	N	8 12 „
17	21.208	20.35	87.7	20.23	87.6	.0316	.6634	18.20.4	L	9 12 „
18	20.110	20.30	87.7	20.15	87.8	.0308	.6625	18.20.3	L	10 12 „
19	18.464	20.74	88.9	20.07	88.4	.0370	.6616	18.19.1	L	11 12 „
20	17.023	20.81	89.8	20.14	89.0	.0391	.6624	18.19.1	L	Noon.
21	16.337	20.80	90.1	20.11	89.4	.0390	.6621	18.19.0	C	1 12 p. m.
22	17.023	20.62	90.6	20.45	90.0	.0361	.6658	18.20.9	C	2 12 „
23	17.641	20.40	90.4	20.53	90.0	.0325	.6667	18.21.6	C	3 12 „
MAY 25TH-Noon.	18.327	20.06	90.0	20.50	90.0	.0269	.6664	18.22.2	C	4 12 „
1	18.532	19.98	89.3	20.49	89.8	.0255	.6662	18.22.2	N	5 12 „
2	19.150	19.84	88.7	20.48	89.3	.0232	.6661	18.22.6	N	6 12 „
3	19.218	19.79	88.1	20.49	89.0	.0224	.6662	18.22.7	N	7 12 „
4	19.493	19.65	87.7	20.58	88.8	.0202	.6672	18.23.4	N	8 12 „
5	19.836	19.49	87.4	20.59	88.4	.0175	.6673	18.23.8	L	9 12 „
6	20.247	19.35	86.7	20.57	87.8	.0153	.6671	18.24.0	L	10 12 „
7	20.728	19.11	86.3	20.59	86.6	.0113	.6673	18.24.7	L	11 12 „
8	20.865	19.37	85.9	20.72	85.8	.0157	.6688	18.24.6	L	Midnight.
9	21.173	19.45	85.7	20.95	85.7	.0169	.6713	18.25.5	C	1 12 a. m.
10	20.796	19.41	85.5	20.91	85.7	.0162	.6709	18.25.4	C	2 12 „
11	20.590	19.43	85.2	20.92	85.7	.0165	.6710	18.25.4	C	3 12 „
12	20.659	19.46	85.1	20.98	85.5	.0171	.6716	18.25.6	C	4 12 „
13	20.796	19.67	85.0	21.11	85.4	.0206	.6731	18.25.7	N	5 12 „
14	21.688	19.80	85.2	21.17	85.5	.0226	.6737	18.25.7	N	6 12 „
15	21.758	19.95	85.5	21.07	85.7	.0251	.6726	18.24.9	N	7 12 „
16	22.032	19.99	85.8	20.88	86.0	.0257	.6701	18.23.8	N	8 12 „
17	21.516	20.32	86.9	20.60	86.8	.0312	.6675	18.22.2	N	9 12 „
18	20.110	20.58	87.9	20.32	87.4	.0353	.6644	18.20.4	N	10 12 „
19	18.875	20.50	88.5	20.23	87.8	.0341	.6634	18.20.2	N	11 12 „
20	17.641	20.69	89.6	20.26	88.8	.0371	.6637	18.20.0	N	Noon.
21	17.298	20.83	90.5	20.42	89.6	.0394	.6655	18.20.4	C	1 12 p. m.
22	17.503	20.75	90.9	20.48	90.1	.0382	.6661	18.20.7	C	2 12 „
23	17.984	20.46	90.5	20.50	90.1	.0335	.6664	18.21.3	C	3 12 „
MAY 26TH-Noon.	18.395	20.31	90.8	20.52	90.6	.0309	.6666	18.21.8	C	4 12 „
1	18.464	20.02	90.3	20.42	90.1	.0268	.6655	18.22.0	N	5 12 „
2	18.670	20.02	90.0	20.31	89.8	.0268	.6643	18.21.5	N	6 12 „
3	18.670	19.89	89.2	20.31	89.6	.0240	.6643	18.21.9	N	7 12 „
4	19.013	19.85	88.9	20.36	89.2	.0234	.6648	18.21.2	N	8 12 „
5	19.424	19.74	88.4	20.41	89.0	.0216	.6654	18.22.5	L	9 12 „
6	20.110	19.75	88.2	20.44	88.7	.0218	.6657	18.22.7	L	10 12 „
7	20.316	19.87	88.0	20.45	88.4	.0238	.6658	18.22.5	L	11 12 „
8	20.316	19.92	88.0	20.49	88.3	.0247	.6662	18.22.3	L	Midnight.
9	20.590	19.87	87.8	20.50	88.3	.0238	.6664	18.22.6	C	1 12 a. m.
10	20.522	19.87	87.7	20.64	88.1	.0238	.6679	18.23.2	C	2 12 „
11	20.659	19.61	87.2	20.32	87.4	.0195	.6644	18.22.4	C	3 12 „

On the 25th, at about 19h., Dip as obtained by Observation was 18°50′6.

DAILY OBSERVATIONS FROM 26TH TO 28TH MAY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
May 26th—12	20'659	19.79	86°9	20.46	87°1	8.0224	2.6659	18°22'7	C	4 12 a. m.
13	20.522	19.64	86.0	20.47	86.8	.0200	.6660	18.23.0	C	5 12 ,,
14	21.415	19.67	86.0	20.83	86.0	.0206	.6700	18.24.5	C	6 12 ,,
15	22.305	19.85	86.2	20.89	86.0	.0234	.6706	18.24.4	N	7 12 ,,
16	22.305	20.13	86.8	20.75	86.2	.0282	.6691	18.23.2	N	8 12 ,,
17	21.688	20.37	87.5	20.45	86.8	.0320	.6658	18.21.4	L	9 12 ,,
18	20.796	20.56	88.1	20.20	87.2	.0351	.6630	18.19.9	L	10 12 ,,
19	19.561	20.70	88.8	20.10	87.9	.0374	.6620	18.19.3	L	11 12 ,,
20	18.327	20.71	89.6	20.12	88.6	.0375	.6622	18.19.2	L	Noon.
21	17.915	20.66	90.3	20.34	89.5	.0367	.6646	18.20.4	C	1 12 p. m.
22	18.052	20.38	90.3	20.42	90.0	.0320	.6655	18.21.3	C	2 12 ,,
23	18.738	20.18	90.2	20.53	89.8	.0288	.6667	18.22.1	C	3 12 ,,
May 27th-Noon.	18.944	20.12	90.1	20·42	90.0	.0280	.6655	18.21.9	C	4 12 ,,
1	19.150	20.01	89.7	20.33	90.1	.0260	.6645	18.21.7	N	5 12 ,,
2	19.013	19.80	89.0	20.25	89.6	.0226	.6636	18.21.7	N	6 12 ,,
3	18.807	19.64	88.2	20.23	89.0	.0200	.6634	18.22.0	N	7 12 ,,
4	19.150	19.43	86.0	20.12	87.3	.0165	.6622	18.21.9	N	8 12 ,,
5	19.424	19.51	85.2	20.25	86.4	.0178	.6636	18.22.4	L	9 12 ,,
6	19.218	19.78	85.3	20.39	86.3	.0224	.6651	18.22.4	L	10 12 ,,
7	19.767	19.89	85.3	20.59	86.3	.0240	.6673	18.23.0	L	11 12 ,,
8	20.110	19.85	85.4	20.64	86.4	.0234	.6679	18.23.3	L	Midnight.
9	20.247	19.94	85.4	20.72	86.1	.0249	.6688	18.23.4	C	1 12 a. m.
10	20.316	19.94	85.4	20.73	86.0	.0249	.6689	18.23.4	C	2 12 ,,
11	20.179	19.91	85.6	20.75	86.1	.0244	.6691	18.23.7	C	3 12 ,,
12	19.904	19.92	85.8	20.77	86.2	.0247	.6693	18.23.6	C	4 12 ,,
13	20.110	19.87	85.6	20.86	86.0	.0238	.6703	18.24.2	N	5 12 ,,
14	21.071	19.80	85.5	21.01	85.8	.0226	.6720	18.25.0	N	6 12 ,,
15	22.168	19.78	85.7	21.08	86.0	.0222	.6727	18.25.4	N	7 12 ,,
16	22.649	19.81	86.2	20.89	86.2	.0227	.6706	18.24.4	N	8 12 ,,
17	22.032	20.06	87.1	20.56	86.8	.0269	.6670	18.22.5	L	9 12 ,,
18	20.590	20.14	87.5	20.35	87.1	.0282	.6647	18.21.6	L	10 12 ,,
19	19.218	20.34	88.3	20.20	87.9	.0314	.6631	18.20.5	L	11 12 ,,
20	18.327	20.39	88.9	20.26	88.5	.0330	.6637	18.20.5	L	Noon.
21	18.189	20.44	89.4	20.34	89.2	.0331	.6646	18.20.8	C	1 12 p. m.
22	18.738	20.26	89.6	20.41	89.6	.0302	.6654	18.21.5	C	2 12 ,,
23	19.350	20.09	89.9	20.39	90.0	.0273	.6651	18.21.8	C	3 12 ,,
May 28th-Noon.	19.904	19.91	89.4	20.30	90.0	.0244	.6642	18.21.8	C	4 12 ,,
1	19.973	19.88	88.9	20.34	89.5	.0238	.6646	18.22.0	G	5 12 ,,
2	19.013	19.87	88.1	20.07	88.9	.0238	.6616	18.20.8	G	6 12 ,,
3	18.670	20.07	87.7	20.11	88.4	.0269	.6621	18.20.6	G	7 12 ,,
4	18.807	19.96	87.5	20.20	88.2	.0253	.6631	18.21.2	G	8 12 ,,
5	19.150	19.69	87.2	20.24	88.0	.0208	.6635	18.22.0	L	9 12 ,,
6	19.561	19.54	87.1	20.30	87.9	.0183	.6642	18.22.6	L	10 12 ,,
7	19.904	19.55	86.9	20.32	87.7	.0194	.6644	18.22.5	L	11 12 ,,
8	19.973	19.51	86·6	20.37	87.5	.0178	.6649	18.22.9	L	Midnight.
9	19.699	19.57	86.4	20.36	87.4	.0198	.6648	18.22.6	C	1 12 a. m.
10	20.042	19.52	86.2	20.43	87.1	.0181	.6656	18.23.2	C	2 12 ,,
11	20.042	19.69	86.2	20.45	87.1	.0208	.6658	18.22.9	C	3 12 ,,
12	20.110	19.67	86.1	20.51	87.0	.0206	.6665	18.23.1	C	4 12 ,,
13	20.453	19.75	86.0	20.61	87.0	.0218	.6676	18.23.3	G	5 12 ,,
14	21.619	19.57	85.9	20.45	86.6	.0189	.6658	18.23.1	G	6 12 ,,
15	22.032	19.69	86.2	20.43	86.8	.0208	.6656	18.22.8	G	7 12 ,,
16	22.101	19.92	87.1	20.27	87.4	.0247	.6638	18.22.5	G	8 12 ,,
17	20.933	20.21	88.0	19.77	87.8	.0293	.6583	18.18.8	L	9 12 ,,
18	19.356	20.49	89.1	19.60	88.6	.0339	.6565	18.17.5	L	10 12 ,,
19	18.121	20.65	89.9	19.62	89.1	.0365	.6567	18.17.2	L	11 12 ,,
20	18.670	20.69	90.4	19.71	89.7	.0371	.6578	18.17.6	L	Noon.
21	17.949	20.58	91.0	19.71	90.4	.0353	.6578	18.17.8	C	1 12 p. m.
22	18.121	20.43	91.3	19.67	91.0	.0331	.6572	18.17.8	C	2 12 ,,
23	18.875	20.22	91.4	19.86	91.4	.0296	.6593	18.18.1	C	3 12 ,,

On the 28th, at about 19h., Dip as obtained by Observation was 18°55'6.

DAILY OBSERVATIONS FROM 29TH MAY TO 1ST JUNE 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. — Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. — Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. — In English Units.	Absolute Vertical Force. — In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
MAY 29TH-Noon.	19'630	20.05	91°2	19.77	91°5	8.0267	2.6583	18°19'1	C	4 12 p. m.
1	19.561	19.94	90.6	19.53	91.0	.0249	.6557	18.18.4	G	5 12 „
2	19.493	20.04	90.8	19.40	90.5	.0265	.6543	18.17.6	G	6 12 „
3	19.356	19.65	88.9	19.41	90.3	.0202	.6544	18.18.5	G	7 12 „
4	19.424	19.63	88.6	19.47	89.8	.0198	.6550	18.18.8	G	8 12 „
5	19.699	19.60	88.3	19.60	89.2	.0194	.6565	18.19.4	L	9 12 „
6	19.836	19.65	88.1	19.57	89.0	.0202	.6561	18.19.1	L	10 12 „
7	20.042	19.75	88.0	19.71	88.6	.0218	.6577	18.19.5	L	11 12 „
8	20.042	19.79	87.7	19.73	88.2	.0224	.6579	18.19.5	L	Midnight.
9	20.110	19.75	87.4	19.81	88.1	.0218	.6588	18.19.9	C	1 12 a. m.
10	20.385	19.78	87.1	19.88	88.0	.0222	.6595	18.20.2	C	2 12 „
11	20.110	19.82	87.0	19.84	87.9	.0230	.6591	18.19.9	C	3 12 „
12	19.904	19.88	86.9	19.93	87.7	.0238	.6601	18.20.2	C	4 12 „
13	19.973	19.91	86.7	20.02	87.4	.0244	.6611	18.20.6	N	5 12 „
14	21.002	19.90	86.6	20.12	87.2	.0243	.6622	18.21.0	N	6 12 „
15	21.826	20.03	86.8	20.07	87.3	.0263	.6616	18.20.5	N	7 12 „
16	21.551	20.34	87.4	19.77	87.7	.0314	.6583	18.18.6	N	8 12 „
17	19.767	20.72	88.3	19.54	88.1	.0378	.6558	18.16.8	L	9 12 „
18	18.464	21.01	89.0	19.57	88.9	.0424	.6561	18.16.2	L	10 12 „
19	17.709	21.18	89.9	19.63	89.4	.0451	.6568	18.16.1	L	11 12 „
20	17.366	20.97	90.6	19.58	90.0	.0419	.6562	18.16.2	L	Noon.
21	16.955	20.58	90.9	19.54	90.6	.0353	.6558	18.17.1	C	1 12 p. m.
22	17.435	20.32	91.1	19.56	91.0	.0312	.6560	18.17.7	C	2 12 „
23	18.052	20.11	91.1	19.61	91.4	.0277	.6566	18.18.3	C	3 12 „
MAY 30TH-Noon.	19.013	19.88	91.0	19.51	91.5	.0238	.6555	18.18.5	C	4 12 „
1	19.287	19.65	90.5	19.37	91.4	.0202	.6539	18.18.3	N	5 12 „
2	19.356	19.53	89.7	19.27	90.7	.0181	.6528	18.18.2	N	6 12 „
3	19.699	19.27	88.9	19.30	90.0	.0130	.6532	18.18.9	N	7 12 „
4	19.973	19.27	88.7	19.31	89.7	.0130	.6533	18.19.0	N	8 12 „
5	20.042	19.28	88.4	19.40	89.4	.0130	.6543	18.19.4	L	9 12 „
6	20.179	19.42	88.0	19.44	89.0	.0165	.6547	18.19.1	L	10 12 „
7	20.659	19.31	87.6	19.36	88.6	.0146	.6538	18.18.9	L	11 12 „
8	20.453	19.48	87.4	19.34	88.3	.0173	.6536	18.18.6	L	Midnight.
9	20.213	19.51	87.1	19.65	88.0	.0178	.6570	18.19.8	C	1 12 a. m.
10	20.453	19.50	87.0	19.72	87.9	.0177	.6578	18.20.3	C	2 12 „
11	20.385	19.63	86.9	19.73	87.7	.0198	.6579	18.19.8	C	3 12 „
12	20.385	19.64	86.7	19.83	87.5	.0200	.6590	18.20.3	C	4 12 „
13	20.453	19.62	86.7	20.02	87.3	.0198	.6611	18.21.1	N	5 12 „
14	20.796	19.60	86.4	20.21	87.1	.0194	.6632	18.22.0	N	6 12 „
15	21.415	19.77	86.7	20.30	87.2	.0222	.7642	18.22.0	N	7 12 „
16	21.415	19.88	87.2	20.15	87.5	.0238	.6625	18.21.2	N	8 12 „
17	20.590	20.08	87.7	19.99	87.9	.0271	.6607	18.20.1	L	9 12 „
18	18.670	20.45	88.3	19.78	88.6	.0333	.6584	18.18.3	L	10 12 „
19	17.641	20.55	89.6	19.77	89.1	.0349	.6583	18.18.0	L	11 12 „
20	16.886	20.57	90.1	19.65	89.9	.0353	.6570	18.17.5	L	Noon.
21	16.817	20.63	90.9	19.73	90.4	.0361	.6579	18.17.7	C	1 12 p. m.
22	17.778	20.44	91.2	19.85	91.0	.0331	.6593	18.18.7	C	2 12 „
23	18.875	20.23	91.4	19.94	91.4	.0298	.6602	18.19.4	C	3 12 „
JUNE 1ST—Noon.	19.561	19.90	90.7	19.95	91.0	.0243	.6581	18.19.4	N	4 12 „
1	19.287	19.68	90.0	19.62	90.8	.0206	.6567	18.19.3	N	5 12 „
2	19.150	19.57	88.8	19.50	90.0	.0189	.6554	18.19.0	N	6 12 „
3	19.081	19.52	88.1	19.58	89.3	.0181	.6562	18.19.4	N	7 12 „
4	19.013	19.42	88.0	19.65	89.1	.0165	.6570	18.19.9	C	8 12 „
5	19.218	19.47	87.4	19.71	88.6	.0173	.6577	18.20.2	C	9 12 „
6	19.561	19.51	86.8	19.92	88.2	.0178	.6600	18.21.0	N	10 12 „
7	19.767	19.62	86.8	19.95	88.2	.0200	.6603	18.20.8	N	11 12 „
8	20.110	19.74	86.6	20.04	87.9	.0216	.6613	18.20.9	N	Midnight.
9	20.247	19.67	86.3	20.15	87.7	.0206	.6625	18.21.6	L	1 12 a. m.
10	20.042	19.97	86.6	20.15	87.7	.0255	.6625	18.20.9	L	2 12 „
11	20.316	19.97	86.5	20.17	87.4	.0255	.6627	18.21.0	L	3 12 „

DAILY OBSERVATIONS FROM 1ST TO 3RD JUNE 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical ForceMagneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.	° ′									h. m.
JUNE 1ST—12	20·590	19.92	86°0	20.23	87°0	8.0247	2.6634	18°21′3	L	4 12 a. m.
13	21.071	19.95	85.9	20.40	86.6	·0251	.6653	18.22.1	C	5 12 „
14	21.619	20.08	86.0	20.45	86.6	.0279	.6658	18.21.0	C	6 12 „
15	21.826	20.17	86.6	20.41	87.0	.0288	.6654	18.21.6	C	7 12 „
16	21.002	20.38	87.2	20.22	87.4	.0320	.6633	18.20.4	C	8 12 „
17	19.904	20.40	87.8	20.05	87.5	.0325	.6614	18.19.5	N	9 12 „
18	18.944	20.52	88.5	19.94	88.0	.0337	.6602	18.18.9	N	10 12 „
19	19.081	20.40	88.9	19.96	88.5	·.0325	.6604	18.19.1	N	11 12 „
20	19.150	20.36	89.7	20.03	89.2	.0318	.6612	18.19.5	N	Noon.
21	19.218	20.30	90.2	20.12	89.9	.0308	.6622	18.20.1	L	1 12 p. m.
22	20.316	20.05	89.2	20.09	89.6	.0267	.6618	18.20.5	L	2 12 „
23	20.865	19.90	88.2	20.07	89.0	.0243	.6616	18.20.8	L	3 12 „
JUNE 2ND-Noon.	20.796	19.80	87.4	19.78	87.7	.0226	.6584	18.19.6	L	4 12 „
1	19.904	19.56	86.1	19.75	86.7	.0187	.6581	18.19.3	C	5 12 „
2	19.424	19.68	85.7	19.86	86.1	.0206	.6593	18.20.3	C	6 12 „
3	18.944	19.54	84.9	20.06	85.5	.0183	.6615	18.21.6	C	7 12 „
4	19.218	19.48	84.2	20.25	85.0	.0173	.6636	18.22.5	C	8 12 „
5	19.664	19.14	84.4	20.33	85.0	.0120	.6645	18.23.5	H	9 12 „
6	19.458	19.15	84.5	20.45	85.1	.0120	.6658	18.24.0	H	10 12 „
7	20.042	19.75	84.5	20.46	85.2	.0218	.6659	18.22.7	H	11 12 „
8	20.385	19.81	84.5	20.55	85.1	.0227	.6669	18.22.9	H	Midnight.
9	20.522	19.88	84.7	20.55	85.5	.0248	.6669	18.22.6	L	1 12 a. m.
10	20.385	19.70	84.8	20.60	85.3	.0210	.6675	18.20.5	L	2 12 „
11	20.042	19.79	84.5	20.59	85.3	.0224	.6673	18.23.2	L	3 12 „
12	20.385	19.62	84.2	20.65	85.0	.0198	.6680	18.23.8	L	4 12 „
13	21.310	19.67	84.2	20.69	84.9	.0206	.6684	18.23.8	C	5 12 „
14	21.826	19.56	84.1	20.84	84.5	.0187	.6701	18.24.7	C	6 12 „
15	21.758	19.79	84.3	20.77	84.3	.0224	.6693	18.24.0	C	7 12 „
16	20.796	20.08	84.7	20.73	84.4	.0271	.6689	18.23.2	C	8 12 „
17	19.699	20.23	85.0	20.54	84.5	.0296	.6668	18.22.0	H	9 12 „
18	19.150	20.53	86.0	20.55	85.0	.0345	.6669	18.21 3	H	10 12 „
19	19.356	20.73	86.5	20.67	85.8	.0378	.6682	18.21.5	H	11 12 „
20	19.561	20.58	86.5	20.61	85.6	.0353	.6676	18.21.6	H	Noon.
21	20.385	20.46	87.0	20.64	86.2	.0335	.6679	18.21.9	L	1 12 p. m.
22	21.002	20.79	87.5	20.49	87.0	.0290	.6662	18.21.8	L	2 12 „
23	20.659	19.99	87.2	20.19	87.1	·0257	.6629	18.21.0	L	3 12 „
JUNE 3RD-Noon.	19.836	19.85	86.7	20.16	87.1	.0243	.6626	18.21.2	L	4 12 „
1	19.287	19.78	86.5	20.07	87.3	.0222	.6616	18.21.0	C	5 12 „
2	19.013	19.75	86.1	20.14	87.0	.0218	.6624	18.21.3	C	6 12 „
3	18.807	19.69	86.0	20.14	86.5	·0208	.6624	18.21.5	C	7 12 „
4	18.944	19.70	85.9	20.19	86.2	.0210	.6629	18.21.7	C	8 12 „
5	19.081	19.76	85.7	20.25	86.0	.0220	.6636	18.21.8	H	9 12 „
6	19.630	19.68	85.5	20.30	86.0	.0206	.6642	18.22.2	H	10 12 „
7	19.836	19.88	85.2	20.32	85.8	.0238	.6644	18.21.9	H	11 12 „
8	20.110	19.95	85.2	20.37	85.5	.0251	.6649	18.21.9	H	Midnight.
9	20.179	20.06	85.1	20.36	85.4	.0269	.6648	18.21.7	L	1 12 a. m.
10	20.453	19.93	85.0	20.40	85.1	.0247	.6653	18.22.1	L	2 12 „
11	20.110	19.97	85.0	20.41	85.0	.0255	.6654	18.22.0	L	3 12 „
12	20.453	19.82	84.8	20.50	84.9	·0230	.6664	18.22.7	L	4 12 „
13	20.590	19.79	84.4	20.52	84.8	.0224	.6666	18.22.9	C	5 12 „
14	21.482	20.02	84.0	20.59	84.6	.0263	.6673	18.22.7	C	6 12 „
15	21.895	19.89	84.7	20.56	84.7	.0240	.6670	18.22.9	C	7 12 „
16	22.032	19.87	85.3	20.29	85.0	.0238	.6640	18.21.8	C	8 12 „
17	20.659	19.93	85.3	20.14	84.7	.0247	.6624	18.20.9	H	9 12 „
18	19.424	20.17	86.0	20.05	85.1	.0288	.6614	18.20.0	H	10 12 „
19	18.738	20.38	86.9	19.96	86.1	.0320	.6604	18.19.2	H	11 12 „
20	17.709	20.18	87.1	19.99	86.3	.0288	.6607	18.19.8	H	Noon.
21	18.052	20.15	87.7	20.22	87.2	.0284	.6633	18.21.0	L	1 12 p. m.
22	19.287	20.01	88.0	20.38	87.8	.0260	.6650	18.21.9	L	2 12 „
23	19.699	20.01	88.3	20.24	88.5	.0260	.6635	18.21.3	L	3 12 „

On the 1st, at about 19h., Dip as obtained by Observation was 19°13′6.

DAILY OBSERVATIONS FROM 4TH TO 7TH JUNE 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
JUNE 4TH—Noon.	20·385	19·72	88·4	20.11	88·8	8·0214	2·6621	18°21'4	L	4 12 p. m.
1	20.453	19.46	88.0	19.99	88.9	.0171	.6608	18.21.4	C	5 12 „
2	19·767	19·59	87.6	19.79	88.4	.0191	·6585	18.20.2	C	6 12 „
3	19.630	19.52	87.0	19.73	87.8	.0181	.6579	18.20.1	C	7 12 „
4	19.493	19·48	86·7	19.73	87.5	.0173	·6579	18.20.2	C	8 12 „
5	20.042	19.54	86.2	19.72	87.2	.0183	·6578	18.20.1	H	9 12 „
6	20.316	19.52	86.0	19.81	87.0	.0181	.6588	18.20.5	H	10 12 „
7	19.904	19.70	85·8	19.85	86.5	.0210	·6592	18.20.2	H	11 12 „
8	20.179	19.58	85.6	19.89	86.4	.0191	·6597	18.20.7	H	Midnight.
9	20·247	19.45	85.3	19.93	86.1	.0169	·6601	18.21.1	L	1 12 a. m.
10	20·316	19.59	85.1	19.93	86.1	.0191	.6601	18.20.8	L	2 12 „
11	20.590	19.53	85·0	20.03	85.8	.0181	.6612	18.21.4	L	3 12 „
12	20.316	19·66	85.0	20.07	85.6	.0204	.6616	18.21.3	L	4 12 „
13	20.796	19.64	84.9	20.19	85.6	.0200	.6629	18.21.8	C	5 12 „
14	22.135	19.50	84.9	20.30	85.4	·0177	.6642	18.22.6	C	6 12 „
15	22.444	19.54	85.0	20.13	85.3	.0183	.6623	18.21.9	C	7 12 „
16	22·032	19.96	85.6	19.72	85.6	.0253	.6578	18.19.1	C	8 12 „
17	20.522	20.26	86.5	19.77	86.2	.0302	.6583	18.18.7	H	9 12 „
18	20·042	20.45	87.5	19.76	87.0	.0333	.6582	18.18.2	H	10 12 „
19	19.287	20.49	88.4	19.78	87.8	.0339	.6584	18.18.2	H	11 12 „
20	18·738	20.49	88·8	19.75	88.2	.0339	.6581	18.18.1	H	Noon.
21	18·807	20.45	89.4	19.77	89.0	.0333	.6583	18.18.2	L	1 12 p. m.
22	19.493	20.21	89.4	19.63	89.3	·0293	.6568	18.18.2	L	2 12 „
23	19.218	19.79	89.7	19.64	89.7	.0224	.6569	18.19.1	L	3 12 „
JUNE 5TH—Noon.	19.767	19·57	89.2	19.56	89·4	.0189	.6560	18.19.2	L	4 12 „
1	19.836	19.40	88.0	19.61	88.9	.0161	.6566	18.19.9	C	5 12 „
2	19.836	19.44	87.5	19.61	88.3	.0167	.6566	18.19.7	C	6 12 „
3	19.767	19.46	87.0	19.59	88·0	.0171	.6563	18.19.6	C	7 12 „
4	19.767	19.45	86.9	19.63	87.6	.0169	.6568	18.19.8	C	8 12 „
5	19.836	19.50	86.6	19.72	87·3	.0177	.6578	18.20.1	H	9 12 „
6	20.110	19.41	86.2	19.80	87.2	·0162	.6587	18.20.7	H	10 12 „
7	20·316	19.43	86.0	19.86	87.0	.0165	.6593	18.20.8	H	11 12 „
8	20.247	19.52	85.8	19.76	86.6	.0181	.6582	18.20.2	H	Midnight.
9	20.110	19.58	85.6	19.53	86.3	.0189	.6557	18.19.2	L	1 12 a. m.
10	20·247	19.59	85.5	19.60	86.0	.0191	.6565	18.19.4	L	2 12 „
11	19.904	19.55	85.3	19.70	86.0	·0185	.6576	18.19.8	L	3 12 „
12	20.247	19.53	85.0	19.82	85.6	·0181	.6589	18.20.5	L	4 12 „
13	20·899	19.57	84·8	19.94	85.3	·0189	.6602	18.20.8	C	5 12 „
14	22·202	19.63	84.6	20.00	85.3	.0198	.6609	18.21.0	C	6 12 „
15	21.619	19.86	85.0	20.01	85.2	·0236	.6610	18.20.6	C	7 12 „
16	21.688	20.14	85.9	19.93	85.9	·0282	.6601	18.19.7	C	8 12 „
17	20·385	20·37	86.7	19.94	86.4	.0320	.6602	18.19.1	H	9 12 „
18	19·287	20.63	87.6	19.81	87.0	.0361	·6585	18.18.0	H	10 12 „
19	18.189	20.75	88.4	19.73	87·8	.0382	·6579	18.17.5	H	11 12 „
20	17.572	20.89	89.0	19.78	88.4	.0404	.6588	18.17.4	H	Noon.
21	17.984	20.79	89.4	19.82	88.9	·0388	.6589	18·17.7	L	1 12 p. m.
22	18·395	20.79	89.7	19.78	89.2	·0388	.6584	18.17.5	L	2 12 „
23	19.081	20·38	89.6	19.71	89.7	.0326	.6577	18.18.1	L	3 12 „
JUNE 7TH—Noon.	20.385	20.04	90.2	19.78	90.7	.0265	.6584	18.19.1	C	4 12 „
1	20·142	19.88	90.0	19.57	90·5	.0238	.6561	18·18.6	C	5 12 „
2	19·424	19.78	89.2	19.42	89.9	.0222	.6545	18.18.1	C	6 12 „
3	19.356	19.72	88.6	19.51	89.5	.0214	.6555	18.18.9	C	7 12 „
4	19.424	19.69	88.1	19.62	89.2	·0208	.6567	18.19.3	C	8 12 „
5	19.561	19.75	87.9	19.47	88.9	.0218	.6551	18.18.5	H	9 12 „
6	19.836	19.77	87.6	19.53	88·4	.0222	.6557	18.18.8	H	10 12 „
7	20.110	19.81	87.5	19.64	88.0	.0227	.6569	18.19.0	H	11 12 „
8	20·316	19.76	87·2	19.73	87.5	.0220	.6579	18.19.5	H	Midnight.
9	20.247	19.72	87.0	19.78	87.3	.0204	.6584	18.19.9	L	1 12 a. m.
10	20.453	19.72	86.9	19.86	87·0	·0204	.6593	18.20.3	L	2 12 „
11	20.247	19.73	86.7	19.95	86·7	.0214	.6603	18.20.7	L	3 12 „

On the 4th, at about 19h., Dip as obtained by Observation was 19°04'4.
On the 5th, at about 20h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 7TH TO 9TH JUNE 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
JUNE 7TH—12	20.522	19.70	86.5	20.05	86.6	8.0210	2.6614	18°21′1	L	4 12 a. m.
13	20.728	19.78	86.4	20.17	86.4	.0222	.6627	18.21.5	C	5 12 „
14	21.826	19.82	86.0	20.08	86.1	.0230	.6639	18.21.8	C	6 12 „
15	21.415	19.94	86.5	20.19	86.3	.0249	.6629	18.21.1	C	7 12 „
16	20.453	20.15	86.8	19.99	86.3	.0284	.6607	18.20.0	C	8 12 „
17	19.836	20.33	86.9	19.97	86.4	.0312	.6605	18.19.5	H	9 12 „
18	19.218	20.54	87.3	19.85	86.6	.0347	.6592	18.18.3	H	10 12 „
19	17.915	20.69	88.0	19.72	87.2	.0371	.6678	18.17.6	H	11 21 „
20	17.709	20.56	88.2	19.94	88.0	.0351	.6602	18.18.7	H	Noon.
21	18.327	20.58	89.5	19.97	88.9	.0353	.6605	18.18.9	L	1 12 p. m.
22	19.081	20.49	90.0	20.00	89.4	.0339	.6609	18.19.2	L	2 12 „
23	19.424	20.22	90.0	20.02	90.0	.0296	.6611	18.19.8	L	3 12 „
JUNE 8TH—Noon.	19.767	20.10	90.0	19.99	90.2	.0276	.6607	18.20.0	L	4 12 „
1	19.973	19.98	89.5	19.80	90.1	.0255	.6587	18.19.4	N	5 12 „
2	19.699	19.89	88.8	18.67	89.8	.0240	.6572	18.19.0	N	6 12 „
3	19.013	19.89	87.8	19.68	89.2	.0240	.6573	18.19.1	N	7 12 „
4	19.424	19.63	87.3	19.76	88.7	.0198	.6582	18.19.9	N	8 12 „
5	19.630	19.73	87.1	19.75	88.4	.0214	.6581	18.19.8	H	9 12 „
6	19.630	19.79	87.0	19.79	88.1	.0224	.6585	18.19.8	H	10 12 „
7	19.836	19.90	87.0	19.84	88.0	.0243	.6591	18.19.8	H	11 12 „
8	20.110	19.92	86.8	19.94	88.0	.0247	.6602	18.20.0	H	Midnight.
9	19.904	19.94	86.7	19.95	87.6	.0249	.6603	18.20.1	L	1 12 a. m.
10	19.904	19.92	86.4	20.00	87.4	.0247	.6609	18.20.3	L	2 12 „
11	19.973	19.90	86.3	20.02	87.4	.0243	.6612	18.20.6	L	3 12 „
12	20.042	19.90	86.2	20.10	87.2	.0243	.6620	18.21.0	L	4 12 „
13	20.590	19.86	86.0	20.18	87.1	.0236	.6628	18.21.3	N	5 12 „
14	21.826	19.85	86.0	20.41	87.0	.0234	.6654	18.22.4	N	6 12 „
15	22.787	19.80	86.3	20.31	87.0	.0226	.6643	18.22.0	N	7 12 „
16	22.101	20.05	86.9	20.03	87.0	.0267	.6612	18.20.2	N	8 12 „
17	20.179	20.36	87.4	19.57	87.2	.0318	.6561	18.17.5	H	9 12 „
18	18.601	20.62	88.2	19.43	87.8	.0361	.6546	18.16.5	H	10 12 „
19	16.958	20.76	89.0	19.46	88.5	.0383	.6549	18.16.4	H	11 12 „
20	16.612	20.69	89.8	19.67	89.1	.0371	.6572	18.17.3	H	Noon.
21	17.160	20.51	90.0	19.86	89.4	.0342	.6593	18.18.6	L	1 12 p. m.
22	18.121	20.29	89.9	19.94	89.7	.0306	.6602	18.19.3	L	2 12 „
23	19.424	20.02	89.7	19.90	89.9	.0263	.6598	18.19.8	L	3 12 „
JUNE 9TH—Noon.	20.110	19.85	89.1	19.87	89.6	.0234	.6594	18.20.0	L	4 12 „
1	19.767	19.76	88.3	19.78	89.2	.0220	.6584	18.19.7	N	5 12 „
2	19.424	19.82	87.8	19.67	89.0	.0230	.6573	18.19.2	N	6 12 „
3	19.013	19.74	87.3	19.76	88.5	.0216	.6582	18.19.6	N	7 12 „
4	19.218	19.73	87.0	19.91	88.2	.0214	.6599	18.20.5	N	8 12 „
5	19.424	19.90	87.1	19.93	88.2	.0243	.6601	18.20.2	H	9 12 „
6	19.767	20.00	87.1	19.99	88.1	.0259	.6607	18.20.2	H	10 12 „
7	19.904	20.00	87.0	20.00	88.0	.0259	.6609	18.20.2	H	11 12 „
8	20.042	20.02	86.8	20.02	88.0	.0263	.6611	18.20.3	H	Midnight.
9	19.973	20.02	86.7	20.05	87.6	.0263	.6614	18.20.4	L	1 12 a. m.
10	20.042	20.01	86.5	20.12	87.3	.0260	.6622	18.20.7	L	2 12 „
11	20.042	19.92	86.1	20.16	87.3	.0247	.6626	18.21.0	L	3 12 „
12	19.973	19.90	85.8	20.21	87.0	.0243	.6632	18.21.4	L	4 12 „
13	20.110	19.88	85.4	20.31	87.0	.0238	.6643	18.21.9	N	5 12 „
14	21.415	20.01	85.8	20.40	86.8	.0260	.6653	18.22.0	N	6 12 „
15	21.688	20.09	86.2	20.24	87.0	.0273	.6635	18.21.2	N	7 12 „
16	21.276	20.04	85.8	20.05	86.8	.0265	.6614	18.20.3	N	8 12 „
17	20.042	20.56	86.5	19.93	86.9	.0351	.6601	18.18.7	H	9 12 „
18	18.738	20.96	87.5	19.83	87.8	.0417	.6590	18.17.4	H	10 12 „
19	17.846	21.12	88.2	19.85	88.2	.0443	.6592	18.17.2	H	11 12 „
20	17.435	21.13	88.9	19.96	88.8	.0443	.6604	18.17.7	H	Noon.
21	17.641	20.98	89.3	19.98	89.3	.0419	.6606	18.18.0	L	1 12 p. m.
22	18.052	20.80	89.9	19.95	89.9	.0390	.6603	18.18.3	L	2 12 „
23	19.356	20.54	90.2	20.04	90.4	.0347	.6613	18.19.2	L	3 12 „

On the 8th, at about 19h., Dip as obtained by Observation was 19°07′5.

DAILY OBSERVATIONS FROM 10TH TO 12TH JUNE 1857.

DATE. Göttingen Mean Time: 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
JUNE 10TH-Noon.	19·630	20.25	89°3	19.84	90°1	8.0300	2.6591	18°19'0	L	4 12 p. m.
1	19.836	19.99	88.4	19.82	89.7	.0257	.6589	18.19.4	C	5 12 „
2	19.767	19.89	87.9	19.75	89.1	.0230	.6581	18.19.5	C	6 12 „
3	19.561	19.80	87.4	19.77	88.9	.0226	.6583	18.19.6	C	7 12 „
4	19.630	19.82	87.4	19.79	88.8	.0230	.6585	18.19.7	C	8 12 „
5	19.699	19.88	87.4	19.84	88.7	.0238	.6591	18.19.8	H	9 12 „
6	19.904	20.00	87.4	19.85	88.4	.0259	.6592	18.19.5	H	10 12 „
7	19.973	19.99	87.5	19.91	88.2	.0257	.6599	18.19.8	H	11 12 „
8	20.179	19.98	87.4	19.92	88.1	.0255	.6600	18.19.9	H	Midnight.
9	20.110	20.01	87.1	19.99	88.0	.0260	.6607	18.20.2	L	1 12 a. m.
10	20.179	20.02	87.0	20.04	87.9	.0263	.6613	18.20.4	L	2 12 „
11	20.110	20.10	87.0	20.01	87.8	.0276	.6610	18.20.1	L	3 12 „
12	20.179	20.05	86.7	20.05	87.7	.0267	.6614	18.20.3	L	4 12 „
13	20.179	20.01	86.5	20.09	87.5	.0260	.6618	18.20.6	C	5 12 „
14	20.796	20.01	86.5	20.37	87.4	.0260	.6649	18.21.8	C	6 12 „
15	21.895	20.06	86.9	20.40	87.6	.0269	.6653	18.21.9	C	7 12 „
16	22.101	20.18	86.8	20.20	87.5	.0288	.6631	18.20.7	C	8 12 „
17	20.865	20.43	86.7	20.07	87.4	.0329	.6616	18.19.6	H	9 12 „
18	19.356	20.82	87.5	20.06	87.9	.0394	.6615	18.18.8	H	10 12 „
19	18·532	21.00	89.0	19.92	89.0	.0423	.6600	18.17.8	H	11 12 „
20	17.572	21.03	89.7	19.89	89.5	.0427	.6596	18.17.5	H	Noon.
21	17.298	20.85	90.0	19.89	89.8	.0398	.6596	18.17.9	L	1 12 p. m.
22	17.778	20.38	88.7	19.94	88.0	.0319	.6602	18.19.1	L	2 12 „
23	19.081	19.51	87.2	20.01	87.1	.0278	.6610	18.20.1	L	3 12 „
JUNE 11TH-Noon.	19·855	19.86	86.1	20.04	86.2	.0236	.6613	18.20.7	L	4 12 „
1	20.453	19.76	85.8	20.09	86.2	.0220	.6618	18.21.1	C	5 12 „
2	19.630	19.76	85.6	20.19	86.2	.0220	.6629	18.21.5	C	6 12 „
3	19.493	19.75	85.5	20.25	86.1	.0218	.6636	18.21.8	C	7 12 „
4	19.424	19.85	85.2	20.31	86.0	.0234	.6643	18.22.0	C	8 12 „
5	19.218	19.76	84.9	20.35	85.8	.0220	.6647	18.22.3	H	9 12 „
6	19.630	19.76	84.8	20.46	85.4	.0220	.6659	18.22.7	H	10 12 „
7	19.836	19.79	84.6	20.51	85.2	.0224	.6665	18.22.9	H	11 12 „
8	20.247	19.89	84.8	20.53	85.1	.0240	.6667	18.22.8	H	Midnight.
9	20.796	19.78	84.8	20.50	85.1	.0230	.6664	18.22.7	L	1 12 a. m.
10	20.796	19.86	84.7	20.53	84.9	.0236	.6667	18.22.8	L	2 12 „
11	20.590	19.96	84.8	20.57	84.8	.0253	.6671	18.22.7	L	3 12 „
12	20.110	19.90	84.6	20.58	84.8	.0243	.6672	18.22.9	L	4 12 „
13	20.522	20.00	84.5	20.62	84.8	.0259	.6677	18.22.9	C	5 12 „
14	21.929	20.01	84.3	20.88	84.7	.0260	.6705	18.24.0	C	6 12 „
15	22.718	20.17	84.5	20.79	84.8	.0288	.6695	18.23.2	C	7 12 „
16	22.787	20.46	85.0	20.56	85.0	.0335	.6670	18.21.6	C	8 12 „
17	21.688	20.91	86.1	20.25	85.5	.0408	.6636	18.19.4	H	9 12 „
18	20.042	21.28	87.3	20.12	86.6	.0468	.6622	18.18.0	H	10 12 „
19	18.464	21.21	87.7	19.96	86.9	.0457	.6604	18.17.4	H	11 12 „
20	16.337	21.18	88.2	19.77	87.6	.0451	.6583	18.16.7	H	Noon.
21	16.063	21.08	88.9	19.73	88.2	.0435	.6579	18.16.7	L	1 12 p. m.
22	16.886	20.77	89.4	19.99	89.0	.0386	.6607	18.18.5	L	2 12 „
23	18.532	20.47	89.4	20.11	89.6	.0337	.6612	18.19.7	L	3 12 „
JUNE 12TH-Noon.	19.767	20.10	89.3	20.11	89.7	.0276	.6621	18.20.5	L	4 12 „
1	20.110	19.97	89.0	19.92	89.8	.0255	.6600	18.19.9	C	5 12 „
2	20.247	19.82	88.2	19.78	89.4	.0230	.6584	18.19.6	C	6 12 „
3	19.561	19.69	87.5	19.68	88.8	.0208	.6573	18.19.1	C	7 12 „
4	19.356	19.72	87.5	19.74	88.5	.0214	.6580	18.19.8	C	8 12 „
5	19.699	19.50	85.8	19.72	87.4	.0177	.6578	18.20.1	H	9 12 „
6	19.767	19.63	85.4	19.76	86.6	.0198	.6582	18.19.9	H	10 12 „
7	19.836	19.74	85.2	19.87	86.4	.0216	.6595	18.20.2	H	11 12 „
8	20.042	19.80	85.0	19.98	86.0	.0226	.6606	18.20.5	H	Midnight.
9	20.385	19.81	85.0	20.05	85.8	.0227	.6614	18.20.7	L	1 12 a. m.
10	20.247	19.83	85.1	20.16	85.9	.0230	.6626	18.21.3	L	2 12 „
11	20.247	19.84	85.1	20.13	85.7	.0232	.6623	18.21.2	L	3 12 „

On the 11th, at about 19h., Dip as obtained by Observation was 18°53'4.

DAILY OBSERVATIONS FROM 12TH TO 15TH JUNE 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
JUNE 12TH— 12	20'453	19.80	85°0	20.24	85°3	8.0226	2.6634	18°21'6	L	4 12 a.m.
13	20'728	19.65	84.7	20.38	85.3	.0202	.6650	18.22.7	C	5 12 „
14	21.551	19.76	84.6	20.51	85.3	.0220	.6665	18.22.9	C	6 12 „
15	21.688	19.95	85.0	20.39	85.5	.0251	.6651	18.22.0	C	7 12 „
16	21.551	20.28	85.7	20.24	85.7	.0304	.6635	18.20.8	C	8 12 „
17	20.796	20.56	85.9	20.07	85.8	.0351	.6616	18.19.3	H	9 12 „
18	19.767	20.77	86.2	20.00	86.0	.0386	.6609	18.18.5	H	10 12 „
19	19.356	20.84	87.2	19.81	86.9	.0396	.6588	18.17.6	H	11 12 „
20	18.395	20.95	87.9	19.62	87.4	.0415	.6567	18.16.5	H	Noon.
21	17.709	20.93	88.6	19.62	88.0	.0411	.6567	18.16.7	L	1 12 p.m.
22	17.709	20.81	89.1	19.89	88.9	.0391	.6596	18.18.0	L	2 12 „
23	18.395	20.60	89.6	19.91	89.6	.0357	.6599	18.18.5	L	3 12 „
JUNE 14TH-Noon.	19.424	20.19	89.0	19.51	89.8	.0290	.6555	18.17.8	C	4 12 „
1	19.561	20.09	89.0	19.40	89.4	.0273	.6543	18.17.6	C	5 12 „
2	19.630	19.87	88.4	19.37	88.9	.0238	.6539	18.17.8	C	6 12 „
3	19.356	19.81	87.9	19.33	88.4	.0227	.6535	18.17.8	C	7 12 „
4	19.356	19.85	87.7	19.41	88.1	.0234	.6544	18.18.1	C	8 12 „
5	19.356	19.53	85.5	19.41	87.0	.0181	.6544	18.18.8	H	9 12 „
6	19.767	19.78	85.7	19.50	86.7	.0222	.6554	18.18.6	H	10 12 „
7	19.424	19.59	85.2	19.63	86.0	.0191	.6568	18.19.5	H	11 12 „
8	19.561	19.60	85.0	19.73	85.8	.0194	.6579	18.19.9	H	Midnight.
9	19.973	19.78	85.1	19.83	86.0	.0222	.6590	18.20.0	L	1 12 a.m.
10	19.767	19.80	85.3	19.83	86.0	.0226	.6590	18.19.9	L	2 12 „
11	19.904	19.73	85.2	19.90	85.9	.0214	.6598	18.20.5	L	3 12 „
12	20.316	19.80	85.0	20.02	85.4	.0226	.6611	18.20.7	L	4 12 „
13	20.316	19.76	84.6	19.99	85.3	.0220	.6607	18.20.7	C	5 12 „
14	21.139	19.75	84.7	20.15	85.0	.0218	.6625	18.21.4	C	6 12 „
15	21.895	19.81	84.8	20.20	85.0	.0227	.6631	18.21.5	C	7 12 „
16	22.168	19.99	85.2	20.11	85.2	.0257	.6621	18.20.7	C	8 12 „
17	21.619	20.27	85.8	19.93	85.9	.0304	.6601	18.19.4	H	9 12 „
18	20.728	20.45	86.5	19.86	86.1	.0333	.6593	18.18.7	H	10 12 „
19	19.699	20 66	87.0	19.72	86.8	.0367	.6578	18.17.6	H	11 12 „
20	18.738	20.61	87.7	19.62	87.4	.0358	.6567	18.17.3	H	Noon.
21	18.738	20.34	88.0	19.51	87.8	.0314	.6566	18.17.9	L	1 12 p.m.
22	18.875	20.19	88.1	19.60	88.1	.0290	.6565	18.18.1	L	2 12 „
23	18.875	20.19	88.1	19.57	88.3	.0290	.6561	18.17.9	L	3 12 „
JUNE 15TH-Noon.	19.424	20.08	88.0	19.49	88.0	.0271	.6553	18.18.0	L	4 12 „
1	19.699	19.82	87.1	19.45	87.2	.0230	.6548	18.18.3	C	5 12 „
2	19.218	19.73	86.9	19.43	87.0	.0214	.6546	18.18.5	C	6 12 „
3	19.287	19.62	86.5	19.56	86.9	.0198	.6060	18.19.1	C	7 12 „
4	19.356	19.69	86.2	19.58	86.5	.0208	.6562	18.19.0	C	8 12 „
5	19.356	19.73	85.9	19.63	86.1	.0214	.6568	18.19.3	H	9 12 „
6	19.699	19.77	85.5	19.76	85.9	.0222	.6583	18.19.7	H	10 12 „
7	19.973	19.77	85.4	19.82	85.6	.0222	.6589	18.19.9	H	11 12 „
8	20.179	19.74	85.2	19.84	85.4	.0216	.6591	18.20.0	H	Midnight.
9	20.522	19.69	85.0	19.91	85.5	.0208	.6599	18.20.5	L	1 12 a.m.
10	20.659	19.67	84.9	19.91	85.3	.0206	.6599	18.20.5	L	2 12 „
11	20.453	19.62	84.8	19.90	85.1	.0198	.6598	18.20.6	L	3 12 „
12	20.385	19.78	84.8	19.93	85.0	.0222	.6601	18.20.4	L	4 12 „
13	20.522	19.73	84.5	19.94	84.8	.0214	.6602	18.20.6	C	5 12 „
14	21.139	19.75	84.3	20.18	84.5	.0218	.6628	18.21.5	C	6 12 „
15	21.345	19.62	84.1	20.18	84.2	.0198	.6628	18.21.8	C	7 12 „
16	21.415	19.89	84.9	20.04	84.6	.0240	.6613	18.20.7	C	8 12 „
17	20.728	20.03	85.1	19.99	84.6	.0263	.6609	18.20.2	H	9 12 „
18	19.836	20.33	86.1	19.92	85.6	.0312	.6600	18.19.3	H	10 12 „
19	17.984	20.48	86.7	19.59	86.2	.0337	.6563	18.17.4	H	11 12 „
20	16.749	20.50	86.8	19.54	86.4	.0341	.6558	18.17.3	H	Noon.
21	16.886	20.43	87.1	19.59	87.0	.0329	.6563	18.17.5	L	1 12 p.m.
22	17.160	20.34	87.3	19.65	87.2	.0314	.6570	18.18.1	L	2 12 „
23	18.395	20.14	87.3	19.70	87.4	.0282	.6576	18.18.7	L	3 12 „

DAILY OBSERVATIONS FROM 16TH TO 18TH JUNE 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
JUNE 16TH—Noon.	19'287	19.91	87°1	19.73	87°1	8.0244	2.6579	18°19'3	L	4 12 p. m.
1	19.836	19.73	86.8	19.60	86.7	.0214	.6565	18.19.2	C	5 12 ,,
2	19.356	19.82	86.1	19.46	86.4	.0230	.6549	18.18.3	C	6 12 ,,
3	18.875	19.78	85.9	19.49	86.2	.0222	.6552	18.18.5	C	7 12 ,,
4	19.013	19.78	85.9	19.51	86.2	.0222	.6555	18.18.7	C	8 12 ,,
5	19.424	19.68	85.7	19.58	86.1	.0206	.6562	18.19.0	H	9 12 ,,
6	19.836	19.62	85.4	19.64	86.0	.0198	.6569	18.19.4	H	10 12 ,,
7	20.110	19 66	85.3	19.67	85.8	.0204	.6572	18.19.5	H	11 12 ,,
8	20.345	19.69	85.2	19.67	85.5	.0208	.6572	18.19.4	H	Midnight..
9	20.590	19.65	85.0	19.68	85.4	.0202	.6573	18.19.6	L	1 12 a. m.
10	20.728	19.56	84.9	19.71	85.3	.0187	.6577	18.19.9	L	2 12 ,,
11	20.728	19.64	84.6	19.71	84.9	.0200	.6577	18.19.8	L	3 12 ,,
12	20.728	19.55	84.2	19.71	83.9	.0185	.6577	18.19.9	L	4 12 ,,
13	20.659	19.61	84.1	19.83	83.8	.0202	.6590	18.20.3	C	5 12 ,,
14	21.758	19.71	84.0	19.96	83.7	.0211	.6604	18.20.7	C	6 12 ,,
15	22.237	19.58	84.0	19.94	83.6	.0189	.6602	18.20.8	C	7 12 ,,
16	21.688	19.80	84.8	19.71	84.1	.0226	.6577	18.19.4	C	8 12 ,,
17	21.415	19.99	85.1	19.55	84.9	.0257	.6559	18.18.3	H	9 12 ,,
18	20.522	20.19	86.0	19.41	85.4	.0290	.6544	18.17.3	H	10 12 ,,
19	19.561	20.25	86.4	19.36	85.9	.0300	.6538	18.17.0	H	11 12 ,,
20	18.395	20.33	87.0	19.35	86.8	.0312	.6537	18.16.9	H	Noon.
21	18.601	20.16	87.4	19.41	87.0	.0286	.6554	18.17.3	L	1 12 p. m.
22	18.807	19.97	87.2	19.53	87.0	.0255	.6557	18.18.3	L	2 12 ,,
23	19.424	19.94	87.3	19.57	87.2	.0249	.6561	18.18.4	L	3 12 ,,
JUNE 17TH—Noon.	19.767	19.75	86.9	19.49	87.0	.0218	.6553	18.18.6	L	4 12 ,,
1	19.493	19.66	86.0	19.33	86.1	.0204	.6535	18.18.2	C	5 12 ,,
2	19.424	19.66	85.7	19.39	85.6	.0202	.6541	18.18.4	C	6 12 ,,
3	19.287	19.47	85.1	19.39	85.4	.0173	.6541	18.18.8	C	7 12 ,,
4	19.493	19.61	85.0	19.26	85.3	.0195	.6527	18.17.9	C	8 12 ,,
5	19.493	19.53	84.8	19.35	84.9	.0181	.6537	18.18.6	H	9 12 ,,
6	19.699	19.60	84.6	19.44	84.7	.0194	.6547	18.18.8	H	10 12 ,,
7	20.042	19.45	83.8	19.56	83.5	.0169	.6560	18.19.5	H	11 12 ,,
8	20.179	19.43	83.2	19.58	83.0	.0165	.6562	18.19.5	H	Midnight.
9	20.316	19.41	82.8	19.62	82.7	.0162	.6567	18.19.9	L	1 12 a. m.
10	20.453	19.42	82.7	19.70	82.7	.0165	.6576	18.20.1	L	2 12 ,,
11	20.590	19.40	82.4	19.80	82.5	.0161	.6587	18.20.7	L	3 12 ,,
12	20.453	19.39	82.3	19.81	82.1	.0159	.6588	18.20.7	L	4 12 ,,
13	20.762	19.31	82.1	19.88	82.0	.0146	.6595	18.21.1	C	5 12 ,,
14	21.415	19.40	82.2	19.96	82.0	.0161	.6604	18.21.3	C	6 12 ,,
15	21.276	19.73	82.9	19.86	82.4	.0214	.6593	18.20.3	C	7 12 ,,
16	21.551	19.95	83.0	19.74	82.5	.0251	.6580	18.19.2	C	8 12 ,,
17	29.796	19.99	83.7	19.51	82.9	.0257	.6555	18.18.2	H	9 12 ,,
18	19.356	20.16	84.6	19.34	83.8	.0286	.6536	18.17.0	H	10 12 ,,
19	18.121	20.28	84.8	19.32	83.9	.0304	.6534	18.16.8	H	11 12 ,,
20	17.915	20.17	84.3	19.36	83.6	.0288	.6538	18.17.1	H	Noon.
21	17.984	20.31	84.8	19.47	84.0	.0309	.6551	18.17.4	L	1 12 p. m.
22	18.670	20.02	84.5	19.50	83.9	.0263	.6554	18.18.1	L	2 12 ,,
23	19.493	19.69	83.7	19.60	83.3	.0208	.6565	18.19.2	L	3 12 ,,
JUNE 18TH—Noon.	20.385	19.44	83.0	19.63	82.6	.0167	.6568	18.19.8	L	4 12 ,,
1	20.110	19.33	82.8	19.62	82.4	.0149	.6567	18.20.0	C	5 12 ,,
2	19.904	19.32	82.4	19.61	82.2	.0149	.6566	18.19.9	C	6 12 ,,
3	19.699	19.29	82.1	19.62	82.0	.0132	.6567	18.20.3	C	7 12 ,,
4	19.561	19.29	82.0	19.76	81.9	.0132	.6582	18.20.8	C	8 12 ,,
5	19.836	19.30	81.9	19.80	81.5	.0145	.6587	18.20.8	H	9 12 ,,
6	19.699	19.44	81.9	19.84	81.4	.0167	.6591	18.20.7	H	10 12 ,,
7	19.699	19.31	82.0	19.85	81.8	.0146	.6592	18.20.9	H	11 12 ,,
8	19.973	19.52	82.0	19.88	81.9	.0181	.6595	18.20.8	H	Midnight.
9	20.042	19.56	81.9	19.86	81.9	.0187	.6593	18.20.5	L	1 12 a. m.
10	20.110	19.47	81.7	19.85	81.8	.0173	.6592	18.20.7	L	2 12 ,,
11	20.179	19.52	81.7	19.87	81.7	.0181	.6594	18.20.7	L	3 12 ,,

DAILY OBSERVATIONS FROM 18TH TO 21ST JUNE 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
JUNE 18TH—12	20'110	19.47	81°6	19.90	81°6	8.0173	2.6598	18°21'0	L	4 12 a. m.
13	20.728	19.52	81.6	19.99	81.6	.0181	.6607	18.21.3	C	5 12 „
14	21.619	19.52	81.6	19.82	81.6	.0181	.6589	18.20.5	C	6 12 „
15	21.758	19.54	82.0	19.74	82.0	.0183	.6580	18.20.2	C	7 12 „
16	21.551	19.63	82.8	19.52	82.7	.0198	.6556	18.19.0	C	8 12 „
17	21.071	19.72	82.8	19.43	82.5	.0214	.6546	18.18.5	H	9 12 „
18	19.356	19.75	83.2	19.24	83.0	.0218	.6523	18.17.4	H	10 12 „
19	18.395	19.85	83.9	19.01	83.7	.0234	.6500	18.16.4	H	11 12 „
20	18.258	19.88	84.5	19.05	84.2	.0238	.6504	18.16.4	H	Noon.
21	18.601	19.85	85.0	19.15	85.0	.0234	.6511	18.16.8	L	1 12 p. m.
22	19.493	19.90	85.6	19.06	85.9	.0243	.6505	18.16 5	L	2 12 „
23	19.424	19.82	85.6	18.88	86.0	.0230	.6485	18.15.8	L	3 12 „
JUNE 19TH—Noon.	19.218	19.77	85.6	18.66	86.0	.0222	.6461	18.14.9	L	4 12 „
1	19.218	19.50	84.0	18.55	84.1	.0177	.6449	18.15.1	C	5 12 „
2	19.287	19.42	83.5	18.76	83.7	.0165	.6472	18.16.4	C	6 12 „
3	19.493	19.27	83.0	18.86	83.7	.0130	.6483	18.17.0	C	7 12 „
4	19.424	19.41	83.4	18.86	83.8	.0162	.6483	18.16.6	C	8 12 „
5	19.630	19.24	82.9	18.85	83.2	.0124	.6482	18.17.0	H	9 12 „
6	19.699	19.27	82.2	18.94	82.9	.0130	.6492	18.17.3	H	10 12 „
7	20.042	19.33	81.8	18.99	82.4	.0149	.6497	18.17.3	H	11 12 „
8	20.110	19.41	81.9	19.07	82.4	.0162	.6506	18.17.5	H	Midnight.
9	20.110	19.48	82.1	19.12	82.4	.0173	.6512	18.17.6	L	1 12 a. m.
10	20.179	19.48	82.1	19.13	82.4	.0173	.6513	18.17.7	L	2 12 „
11	20.179	19.47	82.2	19.16	82.5	.0173	.6516	18.17.8	L	3 12 „
12	20.316	19.38	82.4	19.22	82.8	.0157	.6523	18.18.2	L	4 12 „
13	20.728	19.44	82.8	19.29	83.1	.0167	.6530	18.18.4	C	5 12 „
14	21.963	19.49	82.7	19.34	83.0	.0175	.6536	18.18.5	C	6 12 „
15	22.305	19.72	83.3	19.18	83.3	.0214	.6518	18.17.4	C	7 12 „
16	21.482	19.98	83.9	18.93	83.8	.0255	.6491	18.15.6	C	8 12 „
17	20.110	20.14	84.9	18.60	84.6	.0282	.6455	18.14.1	H	9 12 „
18	19.218	20.72	85.3	18.45	85.0	.0378	.6438	18.12.1	H	10 12 „
19	18.327	20.79	86.1	18.33	85.9	.0388	.6425	18.11.4	H	11 12 „
20	18.327	20.76	86.7	18.50	86.5	.0384	.6444	18.12.3	H	Noon.
21	19.013	20.73	87.1	18.51	87.0	.0398	.6445	18.12.4	L	1 12 p. m.
22	19.424	20.53	87.5	18.51	87.9	.0345	.6445	18.12.7	L	2 12 „
23	20.247	20.28	87.6	18.45	88.2	.0304	.6438	18.13.1	L	3 12 „
JUNE 21ST—Noon.	18.670	19.95	87.7	18.05	88.2	.0251	.6394	18.11.9	H	4 12 „
1	18.944	19.85	87.7	17.93	88.2	.0234	.6381	18.11 7	H	5 12 „
2	18.670	19.73	87.0	17.75	87.8	.0214	.6359	18.11.2	H	6 12 „
3	18.464	19 64	86.2	17.78	87.0	.0200	.6364	18.11.4	C	7 12 „
4	18.601	19.68	85.9	17.82	86.6	.0206	.6369	18.11.5	C	8 12 „
5	18.875	19.75	85.8	17.89	86 4	.0218	.6376	18.11.6	C	9 12 „
6	19.150	19.74	85.5	17.99	86.2	.0216	.6387	18.12.1	H	10 12 „
7	19.493	19.73	85.2	18.00	86.0	.0214	.6389	18.12.3	H	11 12 „
8	2.042	19.72	85.0	18.00	86.0	.0214	.6389	18.12.3	H	Midnight.
9	20.110	19.70	84.9	18.09	85.8	.0210	.6398	18.12.7	L	1 12 a. m.
10	20.385	19.61	84.7	18.12	85.7	.0195	.6402	18.12.9	L	2 12 „
11	20.590	19.55	84.6	18.15	85.6	.0185	.6405	18.13.2	L	3 12 „
12	20.522	19.51	84.5	18.14	85.3	.0178	.6404	18.13.3	L	4 12 „
13	20.453	19.53	84.4	18.14	85.3	.0181	.6404	18.13.4	C	5 12 „
14	21.551	19.56	84.5	18.43	85.1	.0187	.6436	18.14.4	C	6 12 „
15	22.237	19.78	84.9	18.48	85.2	.0222	.6441	18.14.2	C	7 12 „
16	22.374	20.08	85.5	18.31	85.7	.0271	.6423	18.12.9	C	8 12 „
17	21.758	20.25	86.2	18.19	86.2	.0300	.6409	18.11.9	H	9 12 „
18	20.453	20.40	87.0	17.91	86.9	.0325	.6379	18.10.3	H	10 12 „
19	18.944	20.42	87.3	17.81	87.0	.0329	.6368	18.09.9	H	11 12 „
20	18.464	20.64	87.9	17.75	87.7	.0363	.6361	18.09.2	H	Noon.
21	18.532	20.32	87.5	17.77	87.3	.0312	.6363	18.10.0	L	1 12 p. m.
22	19.561	20.00	88.0	17.75	87.8	.0259	.6361	18.10.5	L	2 12 „
23	19.699	19.39	86.0	17.80	86.2	.0159	.6367	18.12.1	L	3 12 „

On the 18th at about 19h., Dip as obtained by Observation was 19°00'6.

DAILY OBSERVATIONS FROM 22ND TO 24TH JUNE 1857.

DATE. Göttingen Mean Time, 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
JUNE 22ND—Noon.	20·179	19.08	85·2	17.78	85·5	8.0107	2.6364	18°12′6	L	4 12 p. m.
1	19.767	19.28	86.0	17.88	86.5	.0124	.6375	18.12.9	C	5 12 „
2	19.424	19.15	85.8	17.84	86.3	.0120	.6371	18.12.7	C	6 12 „
3	19.561	18.82	85.0	17.86	86.0	.0067	.6373	18.13.5	C	7 12 „
4	20.179	18.68	85.0	18.03	85.6	.0042	.6392	18.14.6	C	8 12 „
5	20.316	18.25	84.4	18.01	85.1	7.9972	.6390	18.15.5	H	9 12 „
6	19.973	18.60	83.8	18.02	84.5	8.0030	.6391	18.14.7	H	10 12 „
7	19.767	18.84	83.8	18.06	84.1	.0069	.6395	18.14.4	H	11 12 „
8	19.973	18.81	83.0	18.14	83.0	.0064	.6404	18.14.8	H	Midnight.
9	19.630	18.83	82.5	18.20	82.7	.0067	.6411	18.15 0	L	1 12 a. m.
10	20.316	18.85	82.0	18.38	82.5	.0071	.6430	18.15.8	L	2 12 „
11	20.042	18.79	81.4	18.39	82.3	.0060	.6431	18.15.9	L	3 12 „
12	20.179	18.77	81.0	18.48	82.0	.0058	.6441	18.16.3	L	4 12 „
13	20.179	18.90	81.0	18.64	82.0	.0079	.6459	18.16 8	C	5 12 „
14	21.139	19.07	81.3	18.90	82.1	.0107	.6489	18.17.5	C	6 12 „
15	21.551	19.27	81.6	18.96	82.1	.0130	.6494	13.17.4	C	7 12 „
16	21.688	19.61	82.3	18.70	82.6	.0195	.6466	18.15.4	C	8 12 „
17	20.728	19.74	82.7	18.53	82.9	.0216	.6447	18.14.5	H	9 12 „
18	19.287	19.89	82.4	18.31	81.9	.0240	.6423	18.13.3	H	10 12 „
19	18.052	20.08	83.0	18.34	83.1	.0271	.6426	18.13.0	H	11 12 „
20	17.709	20.14	83.0	18.48	83.2	.0282	.6441	18.13.5	H	Noon.
21	18.327	19.97	82.6	18.58	83.2	.0255	.6452	18.14.1	L	1 12 p. m.
22	18.601	19.95	83.2	18.62	83.4	.0251	.6457	18.14.5	L	2 12 „
23	18.944	19.86	84.1	18.64	84.0	.0236	.6459	18.14.7	L	3 12 „
JUNE 23RD—Noon.	19.561	19.73	84.8	18.69	84.5	.0214	.6464	18.15.2	L	4 12 „
1	19.561	19.73	85.0	18.48	85.4	.0214	.6441	18.14.4	C	5 12 „
2	19.424	19.46	84.2	18.26	84.5	.0171	.6417	18.14.0	C	6 12 „
3	19.013	19.27	83.0	18.25	83.4	.0130	.6416	18.14.4	C	7 12 „
4	18.738	19.32	83.2	18.40	83.3	.0149	.6433	18.14.8	C	8 12 „
5	19.561	18.97	82.4	18.44	82.8	.0091	.6437	18.15.8	H	9 12 „
6	19.561	19.10	81.8	18.53	82.2	.0112	.6447	18.16.0	H	10 12 „
7	19.356	19.09	81.4	18.56	82.0	.0109	.6450	18.16.1	H	11 12 „
8	19.904	19.27	81.8	18.56	82.0	.0130	.6450	18.15.8	H	Midnight.
9	19.836	19.30	82.0	18.65	82.3	.0145	.6460	18.15.8	L	1 12 a. m.
10	20.316	19.24	81.8	18.67	82.2	.0124	.6462	18 16.2	L	2 12 „
11	19.973	19.13	80.8	18.65	81.8	.0116	.6460	18.16.2	L	3 12 „
12	20.042	19.25	81.3	18.78	81.9	.0126	.6474	18.16.6	L	4 12 „
13	20.179	19.30	81.7	18.80	82.0	.0145	.6477	18.16.5	C	5 12 „
14	20.728	19.44	81.7	18.86	82.0	.0167	.6483	18 16.5	C	6 12 „
15	20.728	19.50	81.1	18.70	81.5	.0197	.6466	18.15.7	C	7 12 „
16	20.247	19.79	81.3	18.64	81.4	.0224	.6459	18.14.9	C	8 12 „
17	19.973	20.21	81.9	18.65	81.8	.0293	.6460	18.14 0	H	9 12 „
18	19.630	20.46	82.0	18.55	81.8	.0335	.6449	18 13.0	H	10 12 „
19	17.846	20.42	82.3	18.46	82.1	.0329	.6439	18.12.7	H	11 12 „
20	17.572	20.27	82.2	18.71	82.0	.0304	.6467	18.14.2	H	Noon.
21	17.572	20.16	82.8	18.82	82.4	.0286	.6479	18.14.7	L	1 12 p. m.
22	18.189	19.91	83.0	19.02	82.5	.0244	.6501	18.16.3	L	2 12 „
23	19.013	19.74	83.4	19.04	83.0	.0216	.6503	18.16.6	L	3 12 „
JUNE 24TH—Noon.	20.042	19.55	83.3	18.94	83.1	.0185	.6492	18.16.5	L	4 12 „
1	20.316	19.43	83.0	18.80	83.4	.0165	.6477	18.16.3	C	5 12 „
2	19.836	19.30	83.0	18.50	83.4	.0145	.6444	18.15.2	C	6 12 „
3	19.150	19.30	82.9	18.40	83.4	.0146	.6433	18.14.8	C	7 12 „
4	19.150	19.24	82.5	18.46	83.0	.0124	.6439	18 15.4	C	8 12 „
5	19.287	19.22	82.2	18.49	82.9	.0122	.6442	18.15.5	H	9 12 „
6	19.356	19.28	82.2	18.54	82.9	.0130	.6448	18.15.7	H	10 12 „
7	19.767	19.34	82.2	18.57	82.9	.0151	.6451	18.15.5	H	11 12 „
8	20.042	19.20	81.5	18.54	82.1	.0118	.6448	18.15.8	H	Midnight.
9	20.110	19.22	82.4	18.51	82.0	.0122	.6445	18.15.7	L	1 12 a. m.
10	20.110	19.14	81.0	18.55	81.7	.0118	.6449	18.15.8	L	2 12 „
11	20.247	19.10	80.5	18.44	81.2	.0112	.6439	18.15.6	L	3 12 „

On the 22nd, at about 19h., Dip as obtained by Observation was 18°48′8.

DAILY OBSERVATIONS FROM 24TH TO 26TH JUNE 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.	° ′							° ′		h. m.
JUNE 24TH—12	20·385	19.21	80·5	18.55	81·1	8.0119	2.6449	18 15·8	L	4 12 a. m.
13	20.453	19.39	80.9	18.61	81.3	.0159	.6456	18.15.6	C	5 12 „
14	21.482	19.55	81.5	18.75	81.8	.0185	.6471	18.15.7	C	6 12 „
15	21.688	19.81	81.9	18.68	82.1	.0227	.6463	18.14.9	C	7 12 „
16	21.619	19.93	82.0	18.66	82.1	.0247	.6461	18.14.5	C	8 12 „
17	21.139	20.08	82.1	18.36	82.6	.0271	.6428	18.13.1	H	9 12 „
18	20.316	20.38	82.9	18.09	83.0	.0320	.6398	18.11.2	H	10 12 „
19	19.356	20.39	83.2	17.95	83.2	.0322	.6383	18.10.6	H	11 12 „
20	18.807	20.41	83.6	17.96	83.8	.0326	.6384	18.10.5	H	Noon.
21	18.258	20.27	83.8	17.94	93.9	.0304	.6382	18.10.8	N	1 12 p. m.
22	18.187	20.15	84.2	17.99	84.0	.0284	.6387	18.11.4	N	2 12 „
23	18.670	19.92	84.2	18.13	84.2	.0247	.6403	18.12.3	N	3 12 „
JUNE 25TH-Noon.	19.287	19.66	84.0	18.15	84.1	.0204	.6405	18.13.1	N	4 12 „
1	19.767	19.59	84.0	18.14	84.3	.0191	.6404	18.13.1	C	5 12 „
2	19.561	19.45	83.8	17.98	84.4	.0169	.6386	18.12.7	C	6 12 „
3	19.081	19.39	83.4	17.92	84.0	.0159	.6380	18.12.6	C	7 12 „
4	19.013	19.33	83.2	17.97	84.0	.0149	.6385	18.12.9	C	8 12 „
5	19.150	19.37	83.2	18.01	84.0	.0157	.6390	18.13.0	H	9 12 „
6	19.287	19.38	83.8	18.03	83.9	.0157	.6392	18.13.0	H	10 12 „
7	19.493	19.41	83.1	18.09	83.8	.0162	.6398	18.13.3	H	11 12 „
8	19.767	19.42	83.1	18.11	83.8	.0165	.6401	18.13.3	H	Midnight.
9	20.042	19.40	83.0	18.11	83.7	.0161	.6401	18.13.4	L	1 12 a. m.
10	20.110	19.41	83.0	18.01	83.6	.0162	.6390	18.13.0	L	2 12 „
11	20.110	19.40	83.0	18.06	83.7	.0161	.6395	18.13.2	L	3 12 „
12	20.042	19.41	83.0	18.04	83.7	.0162	.6393	18.13.1	L	4 12 „
13	20.042	19.44	83.0	17.99	83.7	.0167	.6387	18.12.8	C	5 12 „
14	20.728	19.66	83.0	18.21	83.6	.0204	.6412	18.13.3	C	6 12 „
15	21.482	20.01	83.1	18.33	83.8	.0260	.6425	18.13.1	C	7 12 „
16	21.276	20.30	83.5	18.01	83.8	.0308	.6390	18.11.1	C	8 12 „
17	20.316	20.52	84.0	17.87	84.1	.0345	.6374	18.09.8	H	9 12 „
18	19.356	20·67	85.0	17.70	84.9	.0369	.6356	18.09.0	H	10 12 „
19	18.601	20.63	84.6	17.55	84.2	.0361	.6339	18.08.4	H	11 12 „
20	17.846	20.74	85.5	17.53	85.0	.0380	.6337	18.08.2	H	Noon.
21	17.641	20.36	84.2	17.27	84.0	.0318	.6308	18.07.7	L	1 12 p. m.
22	17.435	20.34	83.7	17.36	83.7	.0314	.6318	18.08.3	L	2 12 „
23	17.984	20.08	83.1	17.76	83.5	.0271	.6362	18.10.4	L	3 12 „
JUNE 26TH-Noon.	18.121	19.88	83.8	18.00	84.0	.0238	.6389	18.11.9	L	4 12 „
1	18.807	19.65	84.0	17.92	84 5	.0262	.6380	18.12.1	C	5 12 „
2	18.738	19.56	84.0	17.81	84.4	.0187	.6368	18.11.7	C	6 12 „
3	18.670	19.33	83.3	17.82	84.0	.0149	.6369	18.12.2	C	7 12 „
4	18.875	19.36	83.4	17.69	83.8	.0155	.6354	18.11.6	C	8 12 „
5	19.150	19.35	83.2	17.73	83.9	.0153	.6359	18.11.9	H	9 12 „
6	19.424	19.30	83.1	17.83	83.7	.0145	.6370	18.12.3	H	10 12 „
7	20.042	19.46	83.0	17.85	83.7	.0171	.6372	18.12.1	H	11 12 „
8	19.904	19.41	83.0	17.85	83.6	.0162	.6372	18.12.2	H	Midnight.
9	20.042	19.40	83.0	17.81	83.6	.0161	.6368	18.12.1	L	1 12 a. m.
10	20.453	19.31	83.0	17.83	83.4	.0146	.6370	18.12.3	L	2 12 „
11	20.247	19.37	83.0	17.81	83.5	.0157	.6368	18.12.1	L	3 12 „
12	20.247	19.36	82.9	17.81	83.5	.0155	.6368	18.12.1	L	4 12 „
13	20.247	19.40	83.0	17.86	83.5	.0161	.6373	18.12.3	C	5 12 „
14	21.208	19.41	82.5	18.16	82.9	.0162	.6406	18.13.6	C	6 12 „
15	22.101	19.55	83.0	18.21	83.1	.0185	.6412	18.13.4	C	7 12 „
16	22.374	19.74	83.4	18.10	83.4	.0216	.6400	18.12.6	C	8 12 „
17	21.895	20.09	84.3	17.84	84.0	.0273	.6371	18.10.8	H	9 12 „
18	20.728	20.21	85.0	17.62	84.7	.0293	.6347	18.09.7	H	10 12 „
19	19.287	20.15	84.9	17.33	84.4	.0284	.6315	18.08.6	H	11 12 „
20	18.601	20.15	85.0	17.26	84.8	.0284	.6307	18.08.3	H	Noon.
21	18.189	20.30	86.1	17.29	85.8	.0308	.6310	18.08.0	L	1 12 p. m.
22	17.572	20.12	86.2	17.23	86.0	.0280	.6304	18.08.1	L	2 12 „
23	17.778	19.76	84.9	17.15	85.0	.0220	.6295	18.08.5	L	3 12 „

On the 25th, at about 19h., Dip as obtained by Observation was 19°16′2.
On the 26th, at about 20h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 28TH TO 30TH JUNE 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer, Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
JUNE 28TH-Noon.	19°013	19.45	85°4	17.45	85°8	8.0169	2.6338	18°10′9	L	4 12 p. m.
1	19.013	19.41	85.1	17.37	85.7	.0162	.6319	18.10.2	L	5 12 „
2	19.081	19.45	84.8	17.25	85.5	.0169	.6306	18.09.6	L	6 12 „
3	19.013	19.39	84.5	17.25	85.1	.0159	.6306	18.09.7	L	7 12 „
4	19.150	19.21	84.0	17.33	85.0	.0119	.6315	18.10.6	L	8 12 „
5	19.493	19.07	83.9	17.43	84.9	.0107	.6326	18.11.2	C	9 12 „
6	20.042	19.17	83.9	17.44	84.7	.0124	.6327	18.12.1	C	10 12 „
7	19.973	19.19	83.8	17.43	84.4	.0126	.6326	18.10.9	C	11 12 „
8	20.110	19.15	83.6	17.44	84.1	.0120	.6327	18.11.1	C	Midnight.
9	19.904	19.39	83.6	17.49	84.0	.0159	.6332	18.10.7	H	1 12 a. m.
10	20.110	19.31	83.4	17.50	83.9	.0146	.6334	18.10.9	H	2 12 „
11	20.179	19.26	82.9	17.54	83.0	.0128	.6338	18.11.4	H	3 12 „
12	20.522	19.22	83.0	17.60	83.2	.0122	.6346	18.12.8	H	4 12 „
13	20.453	19.26	83.0	17.78	83.5	.0128	.6364	18.12.3	C	5 12 „
14	21.415	19.30	83.1	17.89	83.5	.0145	.6376	18.12.5	C	6 12 „
15	21.895	19.54	83.2	17.84	83.7	.0183	.6371	18.12.0	C	7 12 „
16	21.895	19.74	83.6	17.78	83.7	.0216	.6364	18.11.1	C	8 12 „
17	21.139	19.99	84.0	17.51	83.8	.0257	.6335	18.09.6	H	9 12 „
18	20.247	20.28	84.3	17.38	84.4	.0304	.6320	18.08.5	H	10 12 „
19	18.464	20.35	85.7	17.20	85.2	.0316	.6301	18.07.4	H	11 12 „
20	17.778	20.21	86.1	17.03	85.9	.0293	.6282	18.07.0	H	Noon.
21	17.915	20.00	86.0	16.98	86.0	.0259	.6276	18.07.2	N	1 12 p. m.
22	18.052	19.74	85.5	17.10	85.3	.0216	.6290	18.08.3	N	2 12 „
23	18.327	19.73	85.8	17.12	85.8	.0214	.6292	18.08.5	N	3 12 „
JUNE 29TH-Noon.	18.601	19.41	85.4	17.17	85.7	.0162	.6297	18.09.4	N	4 12 „
1	18.807	19.45	85.3	17.22	85.5	.0169	.6303	18.09.5	C	5 12 „
2	19.218	19.39	84.9	17.16	85.4	.0159	.6296	18.09.3	C	6 12 „
3	19.493	19.23	84.4	17.13	84.9	.0122	.6293	18.09.7	C	7 12 „
4	19.493	19.17	84.1	17.21	84.7	.0124	.6302	18.10.0	C	8 12 „
5	19.767	19.16	84.0	17.29	84.5	.0122	.6310	18.10.4	H	9 12 „
6	20.042	19.19	83.7	17.34	84.0	.0126	.6316	18.10.5	H	10 12 „
7	20.110	19.19	83.5	17.44	83.9	.0126	.6327	18.11.0	H	11 12 „
8	20.316	19.23	83.4	17.51	83.8	.0122	.6335	18.11.4	H	Midnight.
9	20.385	19.28	83.4	17.55	83.8	.0130	.6339	18.11.4	N	1 12 a. m.
10	20.385	19.25	83.2	17.61	83.8	.0126	.6346	18.11.7	N	2 12 „
11	20.316	19.25	83.1	17.61	83.7	.0126	.6346	18.11.7	N	3 12 „
12	20.385	19.23	82.9	17.66	83.5	.0122	.6351	18.12.0	N	4 12 „
13	20.247	19.25	83.0	17.73	83.5	.0126	.6359	18.12.2	C	5 12 „
14	21.208	19.31	83.0	17.93	83.4	.0146	.6381	18.12.7	C	6 12 „
15	22.444	19.46	83.0	17.95	83.4	.0171	.6383	18.12.6	C	7 12 „
16	22.374	19.64	83.4	17.76	83.7	.0200	.6362	18.11.3	C	8 12 „
17	21.826	19.97	84.0	17.54	83.9	.0255	.6338	18.09.7	H	9 12 „
18	20.316	20.14	84.6	17.33	84.2	.0282	.6315	18.08.6	H	10 12 „
19	19.081	20.34	85.2	17.15	85.0	.0314	.6295	18.07.4	H	11 12 „
20	19.493	20.48	86.0	17.16	85.3	.0337	.6296	18.07.0	H	Noon.
21	18.738	20.25	86.0	16.96	85.7	.0300	.6274	18.06.6	N	1 12 p. m.
22	18.464	20.08	86.3	16.88	86.0	.0271	.6265	18.06.7	N	2 12 „
23	18.155	19.84	86.1	16.91	86.2	.0232	.6269	18.07.3	N	3 12 „
JUNE 30TH-Noon.	18.866	19.66	86.0	16.92	86.2	.0204	.6270	18.07.8	N	4 12 „
1	18.601	19.55	85.5	16.90	86.0	.0185	.6268	18.07.8	C	5 12 „
2	18.807	19.46	84.9	16.88	85.4	.0171	.6265	18.08.0	C	6 12 „
3	18.395	19.32	84.5	16.89	85.1	.0149	.6266	18.08.2	C	7 12 „
4	18.327	19.29	84.3	16.99	84.9	.0132	.6277	18.09.0	C	8 12 „
5	18.532	19.27	84.0	17.12	84.6	.0130	.6292	18.09.5	H	9 12 „
6	18.738	19.30	84.0	17.14	84.5	.0145	.6294	18.09.3	H	10 12 „
7	19.081	19.32	83.9	17.25	84.2	.0149	.6306	18.09.8	H	11 12 „
8	19.424	19.34	83.7	17.32	84.1	.0151	.6314	18.10.1	H	Midnight.
9	19.561	19.30	83.2	17.37	83.6	.0145	.6319	18.10.3	N	1 12 a. m.
10	19.699	19.30	83.2	17.41	83.6	.0145	.6324	18.10.5	N	2 12 „
11	19.699	19.49	83.0	17.50	83.4	.0175	.6334	18.10.6	N	3 12 „

On the 29th, at about 19h., Dip as obtained by Observation was 19°11′6.

DAILY OBSERVATIONS FROM 30TH JUNE TO 2ND JULY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
JUNE 30TH—12	19·699	19.65	82·9	17·58	83·4	8.0202	2.6342	18°10′6	N	4 12 a. m.
13	19.973	19.65	82.9	17.63	83.1	.0202	.6348	18.10.9	C	5 12 „
14	21.002	19.57	82.9	17.65	83.1	.0189	.6350	18.11.1	C	6 12 „
15	21.758	19.70	83·0	17.74	83.0	.0210	.6359	18.11.2	C	7 12 „
16	21.826	19.70	82.5	17.48	82.5	.0210	.6331	18.10.1	C	8 12 „
17	20.728	20.01	83.4	17.44	83.1	.0260	.6327	18.09.3	H	9 12 „
18	19.150	20.28	84.0	17.15	83.4	.0304	.6295	18.07.5	H	10 12 „
19	18.052	20.40	85.0	17.01	84.2	.0324	.6280	18.06.6	H	11 12 „
20	17·435	20.38	85.7	16.95	85.1	.0320	.6273	18.06.3	H	Noon.
21	17.160	20.40	86.0	16.93	86.0	.0325	.6271	18.06.1	N	1 12 p. m.
22	17.092	20.25	86.5	16.83	86.4	.0300	.6260	18.06.1	N	2 12 „
23	17.572	20.02	86.3	16.94	86.3	.0263	.6272	18.07.0	N	3 12 „
JULY 1ST—Noon.	18.052	19.84	85.8	16·86	86.0	.0232	.6263	18.07.1	N	4 12 „
1	18.464	19.68	85.6	16.84	85.7	.0206	.6261	18.07.3	C	5 12 „
2	18.464	19.59	85.1	16.82	85.5	.0191	.6259	18.07.5	C	6 12 „
3	18.258	19.43	84.6	16.82	85.1	.0165	.6259	18.07.8	C	7 12 „
4	18.327	19.28	84.0	16.88	84.6	.0130	.6265	18.08.5	C	8 12 „
5	18.670	19.39	83.8	16.98	84.0	.0159	.6276	18.08.5	H	9 12 „
6	18.875	19.41	83.5	17.22	83.9	.0162	.6303	18.09.6	H	10 12 „
7	19.218	19.40	83.0	17.29	83.5	.0161	.6310	18.09·9	H	11 12 „
8	19.561	19.44	83.0	17.35	83.0	.0167	.6317	18.10.1	H	Midnight.
9	19.630	19.43	82.9	17.41	83.0	.0165	.6324	18.10.3	N	1 12 a. m.
10	19.767	19.45	83.0	17.57	83.1	.0169	.6341	18.11.0	N	2 12 „
11	19.561	19.35	82.5	17.54	82.9	.0153	.6338	18.11.1	N	3 12 „
12	19.767	19.28	81.8	17.53	82.2	.0130	.6337	18.11.4	N	4 12 „
13	20.042	19.35	82.0	17.76	82.0	.0153	.6362	18.11.9	C	5 12 „
14	20.590	19.45	82.5	17.88	82.3	.0169	.6375	18.12.3	C	6 12 „
15	21.071	19.63	82.8	17.89	82.8	.0198	.6376	18.11.9	C	7 12 „
16	21.139	19.88	83.0	17.77	83.0	.0238	.6363	18.10.9	C	8 12 „
17	20.042	20.07	83.6	17.60	83.3	.0271	.6345	18.09.9	H	9 12 „
18	18.121	20.35	84.1	17.46	83.8	.0316	.6329	18.08.5	H	10 12 „
19	17.023	20.47	85.2	17.34	84.7	.0337	.6316	18.07.8	H	11 12 „
20	16.406	20.28	85.8	17.25	85.0	.0304	.6306	18.07.9	H	Noon.
21	16.955	20.10	86.3	17.25	85.8	.0276	.6306	18.08.2	N	1 12 p. m.
22	17.298	19.96	86.3	17.18	86.0	.0253	.6298	18.08.2	N	2 12 „
23	18.327	19.92	86.5	17.23	86.3	.0247	.6304	18.08.4	N	3 12 „
JULY 2ND—Noon.	19.013	19.71	86.3	17.10	86.8	.0211	.6290	18.08.5	N	4 12 „
1	19.013	19.70	86.0	16.89	86.4	.0210	.6266	18.07.5	C	5 12 „
2	18.738	19.59	85.5	16.76	86.0	.0191	.6252	18.07.2	C	6 12 „
3	18.395	19.41	84.9	16.75	85.5	.0162	.6251	18.07.6	C	7 12 „
4	18.258	19.34	84.7	16.80	85.2	.0151	.6257	18.08.0	C	8 12 „
5	18.464	19.35	84.4	16.87	85.0	.0153	.6264	18.08.1	H	9 12 „
6	18.670	19.40	84.2	16.94	84.8	.0161	.6272	18.08.3	H	10 12 „
7	19.013	19.36	84.0	17.05	84.5	.0155	.6284	18.08.8	H	11 12 „
8	19.218	19.37	84·0	17.12	84.2	.0157	.6292	18.09.1	H	Midnight.
9	19.493	19.23	83.4	17.14	84.0	.0122	.6264	18.08.5	N	1 12 a. m.
10	19.630	19.33	83.0	17.11	83.7	.0149	.6291	18.09.2	N	2 12 „
11	19.561	19.35	82.5	17.37	83.1	.0153	.6319	18.10.3	N	3 12 „
12	19.287	19.39	82.5	17.39	83.0	.0159	.6321	18.10.3	N	4 12 „
13	19.767	19.47	82.9	17.53	83.1	.0173	.6337	18.10.9	C	5 12 „
14	20.659	19.53	82.8	17.59	83.1	.0181	.6343	18.11.0	C	6 12 „
15	20.728	19.70	82.8	17.57	83.0	.0210	.6341	18.10.5	C	7 12 „
16	20.385	19.97	83.3	17.45	83.4	.0255	.6328	18.09.3	C	8 12 „
17	19.356	20.18	84.0	17.32	83.9	.0288	.6314	18.08.3	H	9 12 „
18	17.778	20.31	84.5	17.04	84.1	.0309	.6283	18.06.9	H	10 12 „
19	15.857	20.45	85.0	16.86	84.6	.0333	.6263	18.05.8	H	11 12 „
20	14.897	20.36	85.6	16.97	84.9	.0318	.6275	18.06.4	H	Noon.
21	15.720	20.28	85.8	17.26	85.2	.0304	.6307	18.08.0	N	1 12 p. m.
22	16.680	20.15	86.5	17.38	86.1	.0284	.6320	18.08.8	N	2 12 „
23	17.435	19.98	86.8	17.24	86.6	.0255	.6303	18.08.3	N	3 12 „

On the 2nd, at about 19h., Dip as obtained by Observation was 19°10′0.

DAILY OBSERVATIONS FROM 3RD TO 6TH JULY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
July 3rd-Noon.	18'327	19.76	86°5	17.06	86°6	8.0220	2.6285	18°08'1	N	4 12 p. m.
1	19.081	19.64	86.0	16.87	86.4	.0200	.6264	18.07.5	C	5 12 ,,
2	18.327	19.54	85.5	16.66	86.0	.0183	.6241	18.07.0	C	6 12 ,,
3	17.915	19.41	84.9	16.67	85.7	.0162	.6242	18.07.2	C	7 12 ,,
4	18.052	19.35	84.5	16.81	85.4	.0153	.6258	18.08.0	C	8 12 ,,
5	18.121	19.47	84.4	16.85	85.0	.0173	.6262	18.07.8	H	9 12 ,,
6	18.601	19.34	84.2	16.95	85.0	.0151	.6273	18.08.5	H	10 12 ,,
7	18.738	19.34	84.0	17.00	84.9	.0151	.6279	18.08.7	H	11 12 ,,
8	19.013	19.33	83.9	17.04	84.8	.0149	.6283	18.08.9	H	Midnight.
9	19.013	19.26	83.3	17.13	84.2	.0128	.6293	18.09.6	N	1 12 a. m.
10	18.944	19.29	83.2	17.12	84.0	.0132	.6292	18.09.5	N	2 12 ,,
11	19.150	19.34	83.2	17.22	84.0	.0151	.6303	18.09.7	N	3 12 ,,
12	19.081	19.34	83.0	17.32	84.0	.0151	.6314	18.10.1	N	4 12 ,,
13	19.356	19.35	83.0	17.36	84.0	.0153	.6318	18.10.3	C	5 12 ,,
14	20.110	19.45	83.0	17.50	83.7	.0169	.6334	18.10.7	C	6 12 ,,
15	20.865	19.53	83.0	17.59	83.6	.0181	.6343	18.11.0	C	7 12 ,,
16	20.590	19.75	83.5	17.52	83.9	.0218	.6336	18.10.1	C	8 12 ,,
17	19.356	19.97	84.1	17.26	84.0	.0255	.6307	18.08.5	H	9 12 ,,
18	17.709	20.22	85.1	17.13	85.1	.0296	.6293	18.07.4	H	10 12 ,,
19	17.160	20.30	86.0	17.25	85.8	.0309	.6306	18.07.8	H	11 12 ,,
20	16.543	20.38	86.8	17.10	86.5	.0320	.6290	18.07.0	H	Noon.
21	17.298	20.28	86.9	17.07	86.6	.0304	.6286	18.07.1	N	1 12 p. m.
22	17.984	20.30	87.5	17.10	87.2	.0308	.6290	18.07.2	N	2 12 ,,
23	18.670	20.08	87.4	17.02	87.4	.0271	.6281	18.07.3	N	3 12 ,,
July 5th-Noon.	19.150	19.92	86.0	17.08	86.1	.0247	.6287	18.07.8	C	4 12 ,,
1	19.493	19.73	85.6	17.00	86.3	.0214	.6279	18.08.0	C	5 12 ,,
2	19.150	19.55	85.1	16.92	86.0	.0185	.6270	18.07.9	C	6 12 ,,
3	18.670	19.46	84.8	16.89	85.7	.0171	.6266	18.08.0	L	7 12 ,,
4	18.464	19.46	84.7	16.92	85.7	.0171	.6270	18.08.2	L	8 12 ,,
5	18.464	19.44	84.5	16.96	85.2	.0167	.6274	18.08.3	C	9 12 ,,
6	18.532	19.38	84.1	16.98	85.0	.0157	.6276	18.08.5	C	10 12 ,,
7	18.875	19.38	84.0	17.09	84.8	.0157	.6288	18.09.0	C	11 12 ,,
8	18.944	19.39	84.0	17.14	84.7	.0159	.6294	18.09.2	C	Midnight.
9	19.356	19.39	83.9	17.18	84.2	.0159	.6298	18.09.4	H	1 12 a. m.
10	19.424	19.40	83.8	17.24	84.0	.0161	.6305	18.09.7	H	2 12 ,,
11	19.493	19.39	83.7	17.30	84.0	.0159	.6312	18.09.9	H	3 12 ,,
12	19.287	19.41	83.6	17.32	84.0	.0162	.6314	18.10.0	H	4 12 ,,
13	19.699	19.41	83.5	17.44	84.0	.0162	.6327	18.10.6	L	5 12 ,,
14	20.110	19.47	83.3	17.61	83.7	.0163	.6346	18.11.3	L	6 12 ,,
15	20.316	19.62	83.6	17.67	83.8	.0198	.6352	18.11.0	L	7 12 ,,
16	20.522	19.89	84.0	17.64	84.0	.0240	.6349	18.10.4	L	8 12 ,,
17	19.150	20.21	84.5	17.48	84.3	.0293	.6331	18.09.0	C	9 12 ,,
18	18.395	20.48	85.0	17.35	85.0	.0337	.6317	18.07.9	C	10 12 ,,
19	17.298	20.68	85.9	17.37	85.5	.0369	.6319	18.07.5	C	11 12 ,,
20	17.298	20.60	86.6	17.37	86.2	.0367	.6319	18.07.5	C	Noon.
21	17.366	20.39	87.0	17.25	86.5	.0322	.6306	18.07.6	H	1 12 p. m.
22	18.052	20.23	87.2	17.21	86.9	.0296	.6302	18.07.7	H	2 12 ,,
23	18.601	20.06	87.3	17.11	87.0	.0269	.6291	18.07.7	H	3 12 ,,
July 6th-Noon.	18.875	19.84	86.7	17.04	86.4	.0232	.6283	18.07.9	H	4 12 ,,
1	19.150	19.64	86.1	16.98	86.1	.0200	.6276	18.08.0	L	5 12 ,,
2	18.875	19.60	85.7	16.89	85.8	.0194	.6266	18.07.7	L	6 12 ,,
3	18.532	19.50	85.2	16.87	85.8	.0177	.6264	18.07.8	L	7 12 ,,
4	18.327	19.49	85.0	16.91	85.4	.0175	.6269	18.08.0	L	8 12 ,,
5	18.395	19.46	84.9	17.01	85.4	.0171	.6280	18.08.6	C	9 12 ,,
6	18.670	19.40	84.7	17.08	85.2	.0161	.6287	18.09.0	C	10 12 ,,
7	19.013	19.38	84.2	17.11	84.9	.0157	.6291	18.09.1	C	11 12 ,,
8	19.013	19.46	84.3	17.22	84.9	.0171	.6303	18.09.5	C	Midnight.
9	19.150	19.36	84.0	17.26	84.5	.0155	.6307	18.09.8	H	1 12 a. m.
10	19.218	19.48	83.7	17.30	84.0	.0175	.6312	18.09.7	H	2 12 ,,
11	19.287	19.43	83.5	17.38	83.9	.0165	.6320	18.10.2	H	3 12 ,,

On the 3rd, at about 20h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 6TH TO 8TH JULY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
JULY 6TH—12	19·424	19.45	83°5	17.50	83°9	8.0169	2.6334	18°10'7	H	4 12 a. m.
13	19.904	19.43	83.4	17.62	84.0	.0165	.6347	18.11.3	L	5 12 „
14	20.865	19.53	83.4	17.74	84.0	.0181	.6360	18·11.6	L	6 12 „
15	21.551	19.72	83.8	17.72	84.0	.0214	.6358	18.11.2	L	7 12 „
16	21.139	19.93	84.4	17.62	84.1	.0247	.6347	18.10.2	L	8 12 „
17	19.973	20.15	84.3	17.44	84.5	.0284	.6327	18.09.1	C	9 12 „
18	18.464	20.44	83.7	17.14	83.9	.0331	.6294	18.07.0	C	10 12 „
19	17.572	20.53	83.9	17.30	84.0	.0345	.6312	18.07.4	C	11 12 „
20	17.533	20.54	84.9	17.42	84.7	.0347	.6325	18.08.0	C	Noon.
21	17.435	20.43	85.6	17.43	85.1	.0329	.6327	18.08.4	H	1 12 p. m.
22	17.846	20.23	85.9	17.52	85.6	.0296	.6336	18.09.1	H	2 12 „
23	19.081	20.02	86.0	17.37	85.8	.0263	.6319	18.08.9	H	3 12 „
JULY 7TH-Noon.	19.630	19.86	86.4	17.36	86.1	.0236	.6318	18.09.2	H	4 12 „
1	19.630	19.64	85.9	17.23	86.0	.0200	.6304	18.09.1	L	5 12 „
2	19.013	19.64	85.3	17.11	85.7	.0200	.6291	18.08.6	L	6 12 „
3	18.258	19.62	84.8	17.08	85.3	.0198	.6287	18.08.5	L	7 12 „
4	18.258	19.52	84.4	17.15	85.0	.0181	.6295	18.09.1	L	8 12 „
5	18.189	19.59	84.1	17.23	84.8	.0191	.6304	18.09.2	C	9 12 „
6	18.532	19.58	84.0	17.32	84.8	.0189	.6314	18.09.6	C	10 12 „
7	18.807	19.64	84.0	17.37	84.7	.0200	.6319	18.09.7	C	11 12 „
8	18.944	19.75	84.0	17.41	84.7	.0218	.6324	18.09.6	C	Midnight.
9	19.287	19.69	83.9	17.48	84.2	.0208	.6331	18.10.1	H	1 12 a. m.
10	19.493	19.57	83.9	17.51	84.2	.0189	.6335	18.10.5	H	2 12 „
11	19.699	19.45	83.9	17.51	84.2	.0169	.6335	18.10.8	H	3 12 „
12	19.493	19.54	83.9	17.52	84.2	.0183	.6336	18.10.8	H	4 12 „
13	19.493	19.50	83.7	17.61	84.2	.0177	.6346	18.11.1	L	5 12 „
14	20.522	19.65	83.6	17.72	84.0	.0202	.6358	18.11.3	L	6 12 „
15	20.796	19.91	83.9	17.68	84.0	.0244	.6353	18.10.6	L	7 12 „
16	20.385	20.27	84.5	17.53	84.4	.0304	.6337	18.09.2	L	8 12 „
17	19.561	20.60	85.2	17.41	84.7	.0357	.6324	18.07.8	C	9 12 „
18	17.984	20.94	85.9	17.05	85.5	.0413	.6284	18.05.6	C	10 12 „
19	16.474	20.77	86.0	16.89	85.7	.0386	.6266	18.05.1	C	11 12 „
20	16.680	20.49	86.2	16.98	85.9	.0339	.6276	18.06.2	C	Noon.
21	17.572	20.24	86.7	17.08	86.1	.0298	.6287	18.07.2	H	1 12 p. m.
22	17.846	19.84	87.0	17.12	86.8	.0232	.6292	18.08.2	H	2 12 „
23	18.738	19.23	86.9	17.15	86.8	·0122	.6295	18.09.8	H	3 12 „
JULY 8TH-Noon.	18.807	18.67	85.8	17.04	86.4	.0042	.6283	18.10.4	H	4 12 „
1	18.670	18.56	85.6	17.06	85.9	.0023	.6285	18.10.7	L	5 12 „
2	18.944	18.66	85.3	17.05	85.8	.0040	.6284	18.10.4	L	6 12 „
3	18.327	18.63	85.0	16.96	85.4	·0034	.6274	18.10.1	L	7 12 „
4	18.052	18.62	84.5	17.05	85.0	.0034	.6284	18.10.5	L	8 12 „
5	18.601	18.50	84.4	17.25	85.0	.0013	.6306	18.11.7	C	9 12 „
6	18.670	18.78	84.3	17.20	84.9	.0058	.6301	18.10.8	C	10 12 „
7	18.807	18.84	84.2	17.27	84.9	.0069	.6308	18.11.0	C	11 12 „
8	19.013	19.01	84.2	17.38	84.9	.0096	.6320	18.11.1	C	Midnight.
9	19.081	19.05	84.0	17.44	84.8	.0103	.6327	18.11.4	H	1 12 a. m.
10	19.424	19.02	84.0	17.44	84.5	.0099	.6327	18.11.4	H	2 12 „
11	19.767	18.95	83.9	17.48	84.4	.0087	.6331	18.11.6	H	3 12 „
12	19.836	19.07	83.8	17.53	84.4	·0107	.6337	18.11.7	H	4 12 „
13	20.659	18.95	83.0	17.59	83.8	.0087	.6343	18.12.1	L	5 12 „
14	21.208	19.24	83.5	17.64	84.0	.0124	.6349	18.11.9	L	6 12 „
15	20.865	19.38	83.8	17.52	84.0	.0157	.6336	18.10.9	L	7 12 „
16	20.247	19.63	84.4	17.35	84.3	.0198	.6317	18.09.7	L	8 12 „
17	19.150	19.64	85.1	17.32	84.9	.0200	.6314	18.09.5	C	9 12 „
18	18.121	19.97	85.8	17.32	85.5	.0255	.6314	18.08.7	C	10 12 „
19	17.298	20.07	86.4	17.05	86.0	.0271	.6284	18.07.4	C	11 12 „
20	17.092	19.97	86.9	16.99	86.4	.0255	.6277	18.07.3	C	Noon.
21	16.886	19.95	87.3	17.00	86.6	.0251	.6279	18.07.4	H	1 12 p. m.
22	16.680	19.79	87.5	16.85	87.0	.0224	.6262	18.07.1	H	2 12 „
23	17.160	19.62	87.6	16.82	87.2	.0198	.6259	18.07.4	H	3 12 „

DAILY OBSERVATIONS FROM 9TH TO 12TH JULY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
JULY 9TH—Noon.	17·846	19·44	87·3	16.92	87·3	8·0167	2·6270	18°08·2	N	4 12 p. m.
1	18.121	19.31	87.0	16.77	87.1	.0146	.6253	18.07.8	L	5 12 „
2	18·258	19·23	86.2	16.66	87.0	.0122	·6241	18.07.7	L	6 12 „
3	17.915	19.19	85.4	16.57	86.4	.0126	.6231	18.07.2	L	7 12 „
4	17.846	19·12	85·1	16.67	86.2	.0114	·6242	18.07.9	L	8 12 „
5	18.601	18.80	85.0	16.86	85.9	.0073	·6263	18.09.2	C	9 12 „
6	18.395	19.11	84.9	16.89	85.6	.0113	.6266	18.08.8	C	10 12 „
7	19.287	19.26	84.7	16.95	85.6	.0128	·6273	18.08.8	C	11 12 „
8	19.493	19.00	84.5	17.00	85.4	.0095	·6279	18.09.4	C	Midnight.
9	19·699	19.01	84.3	17.03	85.1	.0096	·6282	18.09.5	N	1 12 a. m.
10	19·699	19.01	84.2	17.15	85.0	.0096	.6295	18.10.1	N	2 12 „
11	19.973	18.94	84·1	17.23	85.0	.0085	.6304	18.10.5	N	3 12 „
12	19.904	18·94	84.0	17.23	84.9	.0085	.6304	18.10.5	N	4 12 „
13	19.904	19.08	84.0	17.28	84.7	.0107	.6309	18.10.5	L	5 12 „
14	21.551	19.13	83.9	17.50	84.6	·0116	.6334	18.11.3	L	6 12 „
15	23.404	19.28	84.1	17.49	84.5	.0130	.6332	18.11.1	L	7 12 „
16	23·198	19.60	84.8	17.20	84.9	.0194	.6301	18.09.1	L	8 12 „
17	21.826	19.72	85.4	16.89	85.6	.0214	.6266	18.07.5	C	9 12 „
18	19·973	19.91	86.3	16.64	86.3	.0244	.6239	18.06.1	C	10 12 „
19	18.532	20.09	87.0	16.44	86.7	.0273	.6217	18.04.9	C	11 12 „
20	17·366	20.14	87·6	16.22	87.3	.0280	.6193	18.03.8	C	Noon.
21	16·817	20.03	87.7	16.26	87.3	.0263	.6197	18.04.2	N	1 12 p. m.
22	16.886	19.90	87.5	16.24	87.3	·0243	.6195	18.04.4	N	2 12 „
23	17.641	19.76	87.6	16.37	87.6	.0220	.6209	18.05.1	N	3 12 „
JULY 10TH—Noon.	18.532	19·57	87.2	16.43	87·7	.0189	.6216	18.05.8	N	4 12 „
1	18.327	19.61	86.9	16.22	87.4	.0195	.6193	18.04.8	L	5 12 „
2	18.189	19.53	86.3	16.31	87.1	.0181	.6203	18.05.5	L	6 12 „
3	17.984	19.29	85.7	16.35	86·8	.0132	.6207	18.06.3	L	7 12 „
4	17.984	19.23	85.3	16.40	86.5	.0122	.6213	18.06.6	L	8 12 „
5	18.258	19.17	85.0	16.53	86·2	.0124	.6227	18.07.2	C	9 12 „
6	18.670	19.21	85.0	16.78	86.0	·0119	.6254	18.08.2	C	10 12 „
7	19·081	19.31	84.8	16.82	85.7	.0146	.6259	18.08.0	C	11 12 „
8	19.493	19.20	84.7	16.89	85.6	.0118	.6266	18.08.6	C	Midnight.
9	19.561	19.45	84.5	16.96	85.4	.0169	.6274	18.08.3	N	1 12 a. m.
10	19·699	19.36	84.3	17.00	85.2	.0155	.6279	18.08.6	N	2 12 „
11	19.561	19.17	84.1	17.05	85.0	·0124	.6284	18.09.3	N	3 12 „
12	19.493	19.20	84.0	17.15	85.0	·0118	.6295	18.09.8	N	4 12 „
13	19·904	19.37	84·0	17.25	84.9	·0157	.6306	18.09.7	L	5 12 „
14	20·728	19.42	84.0	27.38	84.5	.0165	.6320	18.10.2	L	6 12 „
15	21.619	19.57	84.0	27.32	84.6	·0189	.6314	18.09.6	L	7 12 „
16	21.276	19.53	84.6	17.21	84.9	·0181	.6302	18.09.3	L	8 12 „
17	20·590	19·61	85.5	17.07	85.7	.0195	.6286	18.08.4	C	9 12 „
18	19·493	19.64	86.6	16.85	86.6	.0200	·6262	18.07.4	C	10 12 „
19	18.258	19·87	87.3	16.56	87·0	.0238	·6230	18.05.8	C	11 12 „
20	17.641	20.08	87.9	16.44	87.4	.0271	.6217	18.04.9	C	Noon.
21	17.435	19.95	88.3	16.55	87.8	·0251	.6229	18·05.5	N	1 12 p. m.
22	18·327	19.75	88.5	16.54	88.1	·0218	.6228	18.05.9	N	2 12 „
23	18.670	19·58	88.5	16.43	88.4	.0189	.6216	18.05.8	N	3 12 „
JULY 12TH—Noon.	18.395	19.22	88.1	16.59	89.0	.0122	.6233	18.07.6	C	4 12 „
1	18·944	19.16	87.9	16.54	88·8	.0122	.6228	18·07.2	C	5 12 „
2	19·287	19.03	87.2	16.50	88.3	.0099	.6224	18.07.3	C	6 12 „
3	19.150	18.95	86.7	16.48	87.8	.0087	.6221	18.07.3	L	7 12 „
4	19.013	19.01	86.3	16.54	87.4	.0096	.6228	18.07.5	L	8 12 „
5	19.150	19.06	86.0	16.59	87.1	.0105	.6233	18.07.6	L	9 12 „
6	19.424	19.08	85.6	16.67	86·9	.0107	.6244	18.08.0	C	10 12 „
7	19.767	19.04	85.4	16.89	86.4	.0101	.6266	18.08.9	C	11 12 „
8	19·904	19.08	85·2	16.87	86.2	.0107	.6264	18.08.7	C	Midnight.
9	19.836	19.08	85.2	16.98	86.1	.0107	.6276	18.09.2	N	1 12 a. m.
10	19.699	19.06	84.8	17.07	85·8	·0105	.6286	18.09.6	N	2 12 „
11	19.356	19.08	84.8	17.09	85·8	.0107	.6288	18.09.7	N	3 12 „

DAILY OBSERVATIONS FROM 12TH TO 14TH JULY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
July 12th—12	19·356	19.08	84°6	17.25	85°6	8.0107	2.6306	18°10'4	N	4 12 a. m.
13	19.561	18.98	84.4	17.39	85.8	.0091	.6321	18.11.2	L	5 12 „
14	20·796	19.04	84.5	17.55	85.1	.0101	.6339	18.11.8	L	6 12 „
15	21.895	19.19	84.7	17.67	85.1	.0126	.6352	18.11.9	L	7 12 „
16	21.963	19.35	85.4	17.39	85.5	.0153	.6321	18.10.4	L	8 12 „
17	20.659	19.50	86.0	17.03	86.0	.0197	.6282	18.08.5	C	9 12 „
18	18.532	19.76	87.0	16.80	86.8	.0220	.6257	18.07.1	C	10 12 „
19	17.298	19.91	87.5	16.62	87.2	.0244	.6237	18.06.1	C	11 21 „
20	15.994	20.00	88.0	16.61	88.0	.0259	.6236	18.05.7	C	Noon.
21	15.445	19·95	88.0	16.66	88.0	.0251	.6241	18.06.0	N	1 12 p. m.
22	15.994	19.91	87.9	16.82	88.1	.0244	.6259	18.06.9	N	2 12 „
23	16.886	19.64	87.8	16.94	88.0	.0200	.6272	18.07.8	N	3 12 „
July 13th-Noon.	18.121	19.58	88.0	17.13	88.2	.0189	.6293	18.08.8	N	4 12 „
1	19.081	19.33	87.5	17.02	87.9	.0149	.6281	18.08.8	L	5 12 „
2	19.150	19.23	87.0	16.89	87.6	.0122	.6266	18.08.6	L	6 12 „
3	19.013	19.10	86.5	16.87	87.3	.0112	.6264	18.08.7	L	7 12 „
4	18.944	19.14	86.2	16.91	87.0	.0116	.6269	18.08.7	L	8 12 „
5	18.875	19.15	86.0	17.00	86.7	.0118	.6279	18.09.1	C	9 12 „
6	18.944	19.18	85.9	17.05	86.5	.0122	.6284	18.09.3	C	10 12 „
7	19.150	19.09	85.4	17.18	86.1	·0109	.6298	18.10.1	C	11 12 „
8	19.836	18.99	84.9	17.28	85.5	.0093	.6309	18.10.7	C	Midnight.
9	19.287	19.13	85.0	17.29	85.6	.0116	.6310	18.10.4	N	1 12 a. m.
10	19.356	19.15	85.0	17.36	85.4	.0120	.6318	18.10.7	N	2 12 „
11	19.493	19.11	84.8	17.45	85.0	.0113	.6328	18.11.3	N	3 12 „
12	19.699	19.22	84.6	17.55	84.9	.0122	.6339	18.11.5	N	4 12 „
13	20.316	19.35	84.4	17.69	84.4	.0153	.6354	18.11.7	L	5 12 „
14	20.865	19.42	84.5	17.84	84.8	.0165	.6371	18.12.1	L	6 12 „
15	21.895	19.46	84.7	17.86	84.6	.0171	.6373	18.12.2	L	7 12 „
16	21.895	19.62	84·9	17.81	85.0	.0198	.6368	18.11·6	L	8 12 „
17	22.237	19.91	85.9	17.75	85.6	.0244	.6361	18.10.8	C	9 12 „
18	20.659	19.92	86.1	17.53	86.0	.0247	.6337	18.09.8	C	10 12 „
19	19.081	19.86	86.0	17.39	86.0	.0236	.6321	18.09.3	C	11 12 „
20	18.327	20.18	86.9	17.36	86.6	.0288	.6320	18.08.6	C	Noon.
21	18·121	20.15	87.3	17.51	87.0	.0284	.6335	18.09.4	N	1 12 p. m.
22	18.395	20.11	87.3	17.31	87.1	.0277	.6313	18.08.5	N	2 12 „
23	18.532	19.78	87.4	17.32	87.3	.0222	.6314	18.09.2	N	3 12 „
July 14th-Noon.	18.464	19.39	87.3	17.24	87.2	.0159	.6305	18.09.7	N	4 12 „
1	18.464	19.40	86.6	17.27	86.9	.0161	.6308	18.09.8	L	5 12 „
2	18.601	19.34	86.2	17.36	86.7	.0151	.6318	18.10.3	L	6 12 „
3	18.327	19.26	85.9	17.34	86.4	.0128	.6316	18.10.5	L	7 12 „
4	18.395	19.26	85.7	17.39	86.3	.0128	.6321	18.10.7	L	8 12 „
5	18.670	19.20	85.3	17.48	86.0	.0118	.6331	18.11.2	C	9 12 „
6	19.013	19.18	85.1	17.53	85.9	.0124	.6337	18.11.5	C	10 12 „
7	19.699	19.17	85.0	17.62	85·5	.0124	.6347	18.11.9	C	11 12 „
8	19.904	19.19	84·9	17.66	85.4	·0126	.6351	18.11.9	C	Midnight.
9	20.042	19.17	84.7	17.69	85.0	.0124	.6354	18.12.1	N	1 12 a. m.
10	19.904	19.12	84.5	17.73	84.8	.0116	.6359	18.12.3	N	2 12 „
11	20.042	19.09	84.2	17.80	84.3	.0109	.6367	18.12.8	N	3 12 „
12	19.630	19.06	84.1	17.86	84.3	.0105	.6373	18.13.0	N	4 12 „
13	20.042	19.13	84.1	17.93	84.6	.0126	.6381	18.13.1	L	5 12 „
14	20·590	19.25	84.1	18.11	84.3	.0126	.6401	18.13.8	L	6 12 „
15	21.071	19.36	84.1	18.13	84.3	.0155	.6403	18.13.4	L	7 12 „
16	21.002	19.52	84.4	18.13	84.2	.0181	.6403	18.13.3	L	8 12 „
17	20·042	19.78	85.4	17.89	85.0	.0222	.6376	18.11.6	C	9 12 „
18	18.875	19.95	86.0	17.78	85.9	.0251	.6364	18.10.7	C	10 12 „
19	17.709	20·18	86.8	17.81	86.3	.0288	.6368	18.10.4	C	11 12 „
20	17.778	20.18	86.9	17.92	86.5	.0288	.6376	18.10.7	C	Noon.
21	18.052	20.04	87.2	17.78	86.8	.0265	.6364	18.10.5	N	1 12 p. m.
22	17.984	19.90	87.9	17.82	87.2	.0243	.6369	18.11.1	N	2 12 „
23	18.258	19.67	87.8	17.78	87.4	.0206	.6364	18.11.3	N	3 12 „

On the 13th, at about 20h., Dip as obtained by Observation was 19°19'7.

DAILY OBSERVATIONS FROM 15TH TO 17TH JULY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.	′							° ′		h. m.
JULY 15TH-Noon.	18.670	19.47	87.6	17.68	87.4	8.0174	2.6353	18 11.5	N	4 12 p. m.
1	18.875	19.36	87.3	17.56	87.1	.0155	.6340	18.11.1	L	5 12 „
2	19.150	19.21	86.7	17.46	87.0	.0119	.6329	18.11.1	L	6 12 „
3	19.218	19.11	85.9	17.41	86.2	.0113	.6324	18.11.1	L	7 12 „
4	19.081	19.11	85.6	17.43	86.1	.0113	.6326	18.11.2	L	8 12 „
5	19.013	19.01	85.2	17.56	85.9	.0096	.6340	18.11.9	C	9 12 „
6	19.081	19.10	85.0	17.60	85.5	.0112	.6345	18.12.0	C	10 12 „
7	19.493	19.18	85.0	17.66	85.3	.0124	.6351	18.12.0	C	11 12 „
8	19.561	19.26	84.9	17.75	85.0	.0128	.6361	18.12.2	C	Midnight.
9	19.356	19.22	84.6	17.84	84.8	.0122	.6371	18.12.7	N	1 12 a. m.
10	19.836	19.20	84.4	17.89	84.6	.0118	.6376	18.12.9	N	2 12 „
11	19.699	19.26	84.2	17.93	84.2	.0128	.6381	18.13.0	N	3 12 „
12	19.630	19.24	84.1	17.97	84.0	.0124	.6385	18.13.3	N	4 12 „
13	19.973	19.24	84.0	18.11	84.2	.0124	.6401	18.13.9	L	5 12 „
14	20.933	19.31	84.0	18.27	88.0	.0146	.6418	18.14.2	L	6 12 „
15	21.963	19.46	84.2	18.37	84.0	.0171	.6429	18.14.4	L	7 12 „
16	22.237	19.82	84.6	18.27	84.3	.0230	.6418	18.13.2	L	8 12 „
17	20.453	20.10	85.0	17.76	84.7	.0276	.6362	18.10.3	C	9 12 „
18	17.778	20.32	86.0	17.62	85.5	.0312	.6347	18.09.5	C	10 12 „
19	16.955	20.32	86.6	17.54	86.0	.0312	.6338	18.09.1	C	11 12 „
20	16.749	20.36	87.8	17.79	87.0	.0318	.6365	18.09.9	C	Noon.
21	16.955	20.20	87.6	17.71	87.1	.0292	.6357	18.10.1	N	1 12 p. m.
22	18.258	20.06	87.2	17.83	87.0	.0269	.6370	18.10.8	N	2 12 „
23	18.738	19.93	87.6	17.72	87.3	.0247	.6358	18.10.6	N	3 12 „
JULY 16TH-Noon.	18.327	19.70	87.0	17.51	87.0	.0210	.6335	18.10.3	N	4 12 „
1	18.327	19.60	87.0	17.52	86.3	.0194	.6336	18.10.5	L	5 12 „
2	18.807	19.34	86.4	17.54	86.2	.0151	.6338	18.11.1	L	6 12 „
3	19.081	19.09	85.8	17.54	86.0	.0109	.6338	18.11.7	L	7 12 „
4	18.875	19.06	85.4	17.61	85.7	.0105	.6346	18.12.0	L	8 12 „
5	18.807	19.01	85.0	17.67	85.5	.0096	.6352	18.12.3	C	9 12 „
6	19.424	19.00	84.9	17.73	85.1	.0095	.6359	18.12.6	C	10 12 „
7	19.356	19.15	84.9	17.85	85.0	.0120	.6372	18.12.7	C	11 12 „
8	19.493	19.14	84.6	17.91	84.8	.0118	.6379	18.13.0	C	Midnight.
9	19.356	19.18	84.3	17.94	84.5	.0124	.6382	18.13.1	N	1 12 a. m.
10	19.561	19.14	84.1	18.03	84.2	.0118	.6392	18.13.5	N	2 12 „
11	19.767	19.14	84.0	18.08	84.0	.0118	.6397	18.13.8	N	3 12 „
12	19.836	19.17	83.8	18.12	83.9	.0124	.6402	18.13.9	N	4 12 „
13	20.110	19.34	83.8	18.24	84.0	.0151	.6415	18.14.1	L	5 12 „
14	21.345	19.34	83.4	18.35	83.8	.0151	.6427	18.14.6	L	6 12 „
15	21.895	19.40	83.8	18.36	83.7	.0161	.6428	18.14.5	L	7 12 „
16	21.071	19.53	84.3	18.20	84.0	.0181	.6411	18.13.6	L	8 12 „
17	19.767	19.69	84.7	18.14	84.5	.0208	.6404	18.12.9	C	9 12 „
18	18.875	20.04	85.2	17.90	85.0	.0265	.6378	18.11.1	C	10 12 „
19	17.435	20.20	86.0	17.79	85.5	.0292	.6365	18.10.3	C	11 12 „
20	16.886	20.36	87.0	17.81	86.3	.0318	.6368	18.10.0	C	Noon.
21	16.955	20.25	87.3	17.62	86.7	.0300	.6347	18.09.6	N	1 12 p. m.
22	16.612	20.03	87.3	17.71	87.0	.0263	.6357	18.10.5	N	2 12 „
23	17.702	19.95	87.5	17.94	87.2	.0251	.6382	18.11.4	N	3 12 „
JULY 17TH-Noon.	18.944	19.78	87.7	17.82	87.4	.0222	.6369	18.11.3	N	4 12 „
1	19.081	19.68	87.3	17.58	87.1	.0206	.6342	18.10.5	L	5 12 „
2	18.670	19.63	86.5	17.44	87.0	.0198	.6327	18.10.5	L	6 12 „
3	18.464	19.48	86.0	17.43	86.7	.0173	.6326	18.10.4	L	7 12 „
4	18.258	19.42	85.7	17.47	86.2	.0165	.6330	18.10.6	L	8 12 „
5	18.327	19.34	85.4	17.51	86.0	.0151	.6334	18.10.9	C	9 12 „
6	18.738	19.26	85.2	17.62	85.8	.0128	.6347	18.11.8	C	10 12 „
7	19.287	19.18	85.0	17.76	85.6	.0124	.6362	18.12.3	C	11 12 „
8	19.973	19.04	85.0	17.89	85.5	.0101	.6376	18.13.2	C	Midnight.
9	20.316	18.95	84.7	17.90	85.1	.0087	.6378	18.13.4	N	1 12 a. m.
10	20.316	18.98	84.6	17.90	85.0	.0091	.6378	18.13.4	N	2 12 „
11	20.247	19.10	84.5	17.82	84.8	.0112	.6369	18.12.8	N	3 12 „

On the 16th, at about 19h., Dip as obtained by Observation was 19°18′8.

DAILY OBSERVATIONS FROM 17TH TO 20TH JULY 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
July 17th—12	20·042	19.06	84°3	17.84	84°8	8.0105	2.6371	18°12'9	N	4 12 a. m.
13	20.042	19.07	84.2	17.89	84.6	.0107	.6376	18.13.1	L	5 12 „
14	20.316	19.14	84.2	18.01	84.4	.0118	.6390	18.13.5	L	6 12 „
15	20.865	19.39	84.4	18.01	84.4	.0159	.6390	18.13.0	L	7 12 „
16	20.522	19.39	85.0	17.74	84.8	.0159	.6360	18.11.8	L	8 12 „
17	19.493	19.57	85.5	17.77	85.5	.0189	.6363	18.11.5	C	9 12 „
18	18.807	19.68	85.9	17.67	85.6	.0206	.6352	18.10.9	C	10 12 „
19	18.121	19.72	86.0	17.70	86.0	.0214	.6356	18.11.1	C	11 12 „
20	17·915	19.64	86.4	17.53	86.0	.0200	.6337	18.10.5	C	Noon.
21	18.670	19.62	87.2	17.57	87.0	.0198	.6341	18.10.6	N	1 12 p. m.
22	19.287	19.08	87.3	17.51	87.1	.0107	.6335	18.11.6	N	2 12 „
23	18.601	19.42	87.6	17.47	87.4	.0165	.6330	18.10.6	N	3 12 „
July 19th—Noon.	19.561	19.74	87.9	17.45	88.3	.0216	.6328	18.09.8	C	4 12 „
1	19.013	19.51	87.4	17.24	87.9	.0178	.6301	18.09.3	L	5 12 „
2	18.601	19.48	86.9	17.10	87.4	.0175	.6292	18.08.9	L	6 12 „
3	18.395	19.36	86.2	17.15	87.2	.0155	.6295	18.09.3	L	7 12 „
4	18.464	19.40	85.9	17.16	86.8	.0167	.6296	18.09.2	L	8 12 „
5	19.287	19.27	85.0	17.20	85.9	.0130	.6301	18.09.9	C	9 12 „
6	19.424	19.28	84.9	17.32	85.5	.0128	.6314	18.10.4	C	10 12 „
7	19.630	19.39	84.9	17.36	85.2	.0159	.6318	18.10.2	C	11 12 „
8	19.767	19.28	84.7	17.46	85.2	.0130	.6329	18.11.0	C	Midnight.
9	19.904	19.25	84.3	17.54	84.6	.0126	.6338	18.11.4	N	1 12 a. m.
10	19.973	19.37	84.1	17.63	84.2	.0157	.6348	18.11.4	N	2 12 „
11	20.110	19.42	84.0	17.69	84.0	.0165	.6354	18.11.5	N	3 12 „
12	19.904	19.54	84.0	17.77	84.1	.0183	.6363	18.11.7	N	4 12 „
13	20.042	19.61	84.0	17.89	84.5	.0195	.6376	18.12.0	L	5 12 „
14	21.002	19.68	84.0	17.98	84.3	.0206	.6386	18.12.2	L	6 12 „
15	20.933	19.52	84.1	18.01	84.3	.0181	.6390	18.12.8	L	7 12 „
16	20.728	19.77	84.7	17.94	84.5	.0222	.6382	18.11.8	L	8 12 „
17	20.316	19.82	85.2	17.80	85.0	.0230	.6376	18.11.5	C	9 12 „
18	19.081	20.07	85.9	17.52	85.6	.0271	.6336	18.09.5	C	10 12 „
19	17.572	20.28	86.5	17.46	86.2	.0304	.6329	18.08.8	C	11 12 „
20	17.915	19.92	85.0	17.51	85.8	.0247	.6335	18.09.7	C	Noon.
21	18.738	19.72	84.1	17.65	85.0	.0214	.6350	18.10.9	N	1 12 p. m.
22	18.670	19.89	85.7	17.68	86.0	.0240	.6353	18.10.6	N	2 12 „
23	19.287	19.69	86.3	17.78	86.1	.0208	.6364	18.11.3	N	3 12 „
July 20th—Noon.	19.630	19.55	86.3	17.78	86.1	.0185	.6364	18.11.5	N	4 12 „
1	19.630	19.43	86.3	17.57	86.4	.0165	.6341	18.11.0	L	5 12 „
2	18.944	19.39	85.7	17.45	86.3	.0159	.6328	18.10.6	L	6 12 „
3	18.395	19.35	85.2	17.50	86.0	.0153	.6334	18.10.9	L	7 12 „
4	18.327	19.33	85.0	17.55	85.9	.0149	.6339	18.11.1	L	8 12 „
5	18.532	19.36	84.9	17.58	85.6	.0155	.6342	18.11.1	C	9 12 „
6	18.670	19.37	84.8	17.52	85.5	.0157	.6336	18.10.9	C	10 12 „
7	18.738	19.34	84.5	17.66	85.3	.0151	.6351	18.11.6	C	11 12 „
8	19.081	19.32	84.3	17.77	85.0	.0149	.6363	18.11.0	C	Midnight.
9	19.356	19.35	84.1	17.79	84.8	.0153	.6365	18.12.1	N	1 12 a. m.
10	19.561	19.25	84.0	17.83	84.2	.0126	.6370	18.12.6	N	2 12 „
11	19.630	19.27	83.8	17.88	84.2	.0130	.6375	18.12.8	N	3 12 „
12	19.561	19.26	83.7	17.92	84.1	.0130	.6380	18.13.0	N	4 12 „
13	19.767	19.33	83.6	17.97	84.0	.0149	.6385	18.12.9	L	5 12 „
14	20.316	19.43	83.6	18.06	83.8	.0165	.6395	18.13.1	L	6 12 „
15	20.590	19.40	83.1	18.07	83.1	.0161	.6396	18.13.2	L	7 12 „
16	20.796	19.73	83.9	18.09	83.6	.0214	.6398	18.12.7	L	8 12 „
17	20.042	20.07	84.3	17.89	84.0	.0271	.6376	18.11.0	C	9 12 „
18	19.150	20.41	85.5	17.70	85.1	.0326	.6356	18.09.5	C	10 12 „
19	17.641	20.44	86.1	17.52	85.6	.0331	.6336	18.08.7	C	11 12 „
20	16.886	20.45	86.2	17.55	85.7	.0333	.6339	18.08.8	C	Noon.
21	16.886	20.25	86.0	17.61	85.8	.0293	.6346	18.09.6	N	1 12 p. m.
22	17.572	20.09	86.9	17.67	86.2	.0273	.6352	18.10.1	N	2 12 „
23	17.641	19.92	87.3	17.60	86.8	.0257	.6345	18.10.0	N	3 12 „

DAILY OBSERVATIONS FROM 21ST TO 23RD JULY 1857.

Date. Göttingen Mean Time, 1857.	Eastern Declination.	Horizontal Force Magneto-meter. — Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. — Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. — In English Units.	Absolute Vertical Force. — In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.			°		°					h. m.
July 21st-Noon.	18°052	19.77	87°2	17.89	87°0	8.0222	2.6376	18°11′6	N	4 12 p. m.
1	18.327	19.64	86.7	17.72	86.5	.0200	.6358	18.11.3	L	5 12 ,,
2	18.327	19.56	86.0	17.68	86.5	.0187	.6353	18.11.2	L	6 12 ,,
3	18.327	19.35	85.3	17.71	86.3	.0153	.6357	18.11.9	L	7 12 ,,
4	18.532	19.19	85.0	17.73	86.0	.0126	.6359	18.12.2	L	8 12 ,,
5	18.807	19.29	84.9	17.78	85.5	.0132	.6364	18.12.3	C	9 12 ,,
6	19.013	19.34	84.8	17.81	85.4	.0151	.6368	18.12.2	C	10 12 ,,
7	19.356	19.37	84.5	17.84	85.0	.0157	.6371	18.12.2	C	11 12 ,,
8	19.493	19.31	84.3	17.91	84.7	.0146	.6375	18.12.5	C	Midnight.
9	19.458	19.28	84.0	17.92	84.1	.0130	.6380	18.13.0	N	1 12 a. m.
10	19.356	19.27	84.0	18.00	84.1	.0130	.6389	18.13.3	N	2 12 ,,
11	19.356	19.30	84.0	18.02	84.0	.0145	.6391	18.13.1	N	3 12 ,,
12	19.356	19.30	83.8	18.06	84.0	.0145	.6395	18.13.3	N	4 12 ,,
13	19.630	19.36	83.9	18.17	84.1	.0155	.6407	18.13.7	L	5 12 ,,
14	20.659	19.34	83.9	18.30	84.0	.0149	.6422	18.14.3	L	6 12 ,,
15	21.415	19.37	84.0	18.30	83.9	.0157	.6422	18.14.2	L	7 12 ,,
16	20.933	19.52	84.1	18.10	84.0	.0181	.6400	18.13.2	L	8 12 ,,
17	19.356	19.66	83.5	18.01	83.5	.0204	.6390	18.12.5	C	9 12 ,,
18	18.532	20.18	83.4	18.04	83.3	.0288	.6393	18.11.4	C	10 12 ,,
19	17.092	20.38	84.0	18.00	83.8	.0320	.6389	18.10.8	C	11 12 ,,
20	16.269	20.38	83.8	18.31	83.5	.0320	.6390	18.10.9	C	Noon.
21	16.063	20.29	83.7	18.29	83.0	.0306	.6420	18.12.3	N	1 12 p. m.
22	16.406	20.26	84.5	18.41	83.8	.0302	.6434	18.12.9	N	2 12 ,,
23	17.229	20.12	85.4	18.39	84.8	.0280	.6431	18.13.1	N	3 12 ,,
July 22nd-Noon.	18.052	19.85	85.5	18.45	85.0	.0234	.6438	18.14.0	N	4 12 ,,
1	19.013	19.62	85.3	19.33	85.0	.0198	.6425	18.13.9	L	5 12 ,,
2	19.287	19.47	84.9	18.21	85.0	.0173	.6412	18.13.9	L	6 12 ,,
3	18.944	19.31	84.3	18.12	84.5	.0146	.6402	18.13.5	L	7 12 ,,
4	18.670	19.21	83.9	18.10	84.1	.0119	.6400	18.13.9	L	8 12 ,,
5	18.670	19.24	83.9	18.12	84.0	.0124	.6402	18.13.9	C	9 12 ,,
6	18.807	19.27	83.6	18.20	83.9	.0130	.6411	18.14.2	C	10 12 ,,
7	19.150	19.35	83.5	18.25	83.8	.0153	.6416	18.14.1	C	11 12 ,,
8	19.150	19.41	83.5	18.31	83.8	.0162	.6423	18.14.3	C	Midnight.
9	19.493	19.46	83.3	18.31	83.6	.0171	.6423	18.14.2	N	1 12 a. m.
10	19.493	19.48	83.0	18.30	83.2	.0173	.6422	18.14.1	N	2 12 ,,
11	19.458	19.38	83.0	18.32	83.2	.0157	.6424	18.14.3	N	3 12 ,,
12	19.424	19.39	83.0	18.33	83.2	.0159	.6425	18.14.4	N	4 12 ,,
13	19.493	19.45	83.0	18.40	83.3	.0169	.6433	18.14.6	L	5 12 ,,
14	20.796	19.48	83.0	18.60	83.2	.0163	.6455	18.15.6	L	6 12 ,,
15	22.101	19.94	83.2	18.64	83.0	.0249	.6459	18.14.5	L	7 12 ,,
16	22.237	20.16	83.0	18.51	83.1	.0286	.6445	18.13.5	L	8 12 ,,
17	21.826	20.20	83.1	18.39	83.2	.0292	.6431	18.12.9	C	9 12 ,,
18	20.796	20.38*	84.3	18.24	83.8	.0320	.6415	18.11.9	C	10 12 ,,
19	20.179	20.69	85.2	17.98	84.7	.0321	.6386	18.10.1	C	11 12 ,,
20	19.424	20.46	85.9	17.98	85.2	.0335	.6386	18.10.5	C	Noon.
21	17.984	20.60	86.3	17.77	85.8	.0357	.6363	18.09.3	N	1 12 p. m.
22	17.435	20.20	86.3	17.73	86.0	.0292	.6359	18.10.1	N	2 12 ,,
23	18.052	20.20	86.3	17.68	86.0	.0292	.6353	18 09.9	N	3 12 ,,
July 23rd-Noon.	18.532	19.76	86.2	17.74	86.1	.0220	.6360	18.11.0	N	4 12 ,,
1	17.915	19.62	86.0	17.62	85.9	.0198	.6347	18.10.9	L	5 12 ,,
2	17.984	19.38	85.5	17.59	85.6	.0157	.6344	18.11.2	L	6 12 ,,
3	18.258	19.21	84.7	17.69	85.0	.0119	.6354	18.12.1	L	7 12 ,,
4	18.327	18.91	84.3	17.76	84.8	.0080	.6362	18.13.9	L	8 12 ,,
5	18.944	19.35	84.0	17.84	84.7	.0153	.6371	18.12.3	C	9 12 ,,
6	19.630	19.00	84.0	17.89	84.5	.0095	.6376	18.13.2	C	10 12 ,,
7	19.561	19.04	83.9	17.86	84.2	.0101	.6372	18.13.0	C	11 12 ,,
8	19.630	19.11	83.8	17.93	84.0	.0113	.6381	18.13.3	C	Midnight.
9	20.042	19.07	83.5	18.01	83.7	.0107	.6390	18.13.7	N	1 12 a. m.
10	20.042	19.01	83.3	18.01	83.5	.0096	.6390	18.13.8	N	2 12 ,,
11	19.699	19.17	83.2	18.01	83.5	.0124	.6390	18.13.5	N	3 12 ,,

DAILY OBSERVATIONS FROM 23RD TO 26TH JULY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
JULY 23RD—12	19·493	19.23	83°0	18.06	83°5	8.0122	2.6395	18°13·7	N	4 12 a. m.
13	19.493	19.13	83.0	18.13	83.6	.0116	.6403	18.14.0	L	5 12 „
14	20.865	19.08	83.0	18.28	83.4	.0107	.6419	18.14.8	L	6 12 „
15	21.551	19.20	83.2	18.25	83.4	.0118	.6416	18.14.5	L	7 12 „
16	21.482	19.38	83.9	18.23	83.8	.0157	.6414	18.13.9	L	8 12 „
17	21.139	19.55	84.8	17.94	84.6	.0185	.6382	18.12.2	C	9 12 „
18	19.218	19.72	85.5	17.62	85.0	.0214	.6347	18.10.8	C	10 12 „
19	17.915	19.99	86.1	17.63	85.9	.0257	.6348	18.10.1	C	11 12 „
20	17.641	20.08	86.9	17·41	86.4	.0271	.6324	18.09.0	C	Noon.
21	17.160	20.11	87.4	17.17	87.4	.0277	.6297	18.07.9	N	1 12 p. m.
22	17.435	19.84	87.9	17.16	87.6	.0232	.6296	18.08.4	N	2 12 „
23	17.092	19.60	87.9	17.13	87.7	.0194	.6293	18.08.8	N	3 12 „
JULY 24TH—Noon.	17.641	19.51	87.5	17.17	87.6	.0178	.6297	18.09.2	N	4 12 „
1	18.327	19.41	86.7	17.17	87.1	.0162	.6297	18.09.4	L	5 12 „
2	19.081	19.31	86.0	17.21	87.0	.0146	.6302	18.09.6	L	6 12 „
3	18.601	19.23	85.6	17.03	86.5	.0122	.6282	18.09.2	L	7 12 „
4	18.601	19.11	85.3	17.09	86.2	.0113	.6288	18.09.7	L	8 12 „
5	19.287	19.05	85.0	17.17	85.7	.0103	.6297	18.10.2	C	9 12 „
6	19.150	19.07	84.3	17.34	84.9	.0107	.6316	18.10.8	C	10 12 „
7	19.287	19.15	84.0	17.39	84.7	.0120	.6321	18.10.8	C	11 12 „
8	19.356	19.12	83.9	17.46	84.0	.0116	.6329	18.11.1	C	Midnight.
9	19.630	19.05	83.1	17.59	83.2	.0103	.6343	18.12.0	N	1 12 a. m.
10	19.561	19.11	83.0	17.64	82.7	.0113	.6349	18.12.1	N	2 12 „
11	19.630	19.05	82.3	17.86	81.9	.0103	.6373	18.13.1	N	3 12 „
12	19.630	19.24	82.2	18.01	81.9	.0124	.6390	18.13.5	N	4 12 „
13	20.110	19.00	82.1	18.15	81.9	.0095	.6405	18.14.4	L	5 12 „
14	21.071	19.19	82.0	18.33	81.7	.0126	.6425	18.14.8	L	6 12 „
15	21.826	19.16	82.2	18.38	81.9	.0122	.6430	18.15.1	L	7 12 „
16	21.688	19.42	82.4	18.31	82.0	.0165	.6423	18.14.2	L	8 12 „
17	21.551	19.61	82.3	18.30	81.9	.0195	.6422	18.13.7	C	9 12 „
18	21.002	19.83	82.4	18.26	81.9	.0230	.6417	18.13.2	C	10 12 „
19	20.042	19.82	83.0	18.17	82.2	.0230	.6407	18.12.8	C	11 12 „
20	19.493	19.62	83.0	18.19	82.3	.0198	.6409	18.13.2	C	Noon.
21	19.287	19.83	83.5	18.19	82.3	.0230	.6409	18.12.8	N	1 12 p. m.
22	19.013	19.84	84.6	18.30	83.4	.0232	.6422	18.13.3	N	2 12 „
23	19.561	19.50	84.4	18.31	83.8	.0177	.6423	18.14.1	N	3 12 „
JULY 26TH—Noon.	18.258	19.11	85.6	17.10	86.0	.0113	.6290	18.09.8	L	4 12 „
1	18.738	18.97	85.0	17.09	85.7	.0091	.6288	18.09.9	L	5 12 „
2	18.875	18.97	84.5	17.06	85.3	.0091	.6285	18.09.8	L	6 12 „
3	18.808	18.95	84.1	17.07	85.0	.0087	.6286	18.09.8	L	7 12 „
4	18.601	18.91	83.9	17.08	84.8	.0080	.6287	18.10.1	L	8 12 „
5	18.601	18.91	83.7	17.13	84.2	.0080	.6293	18.10.3	H	9 12 „
6	18.738	19.02	83.7	17.22	84.0	.0099	.6303	18.10.4	H	10 12 „
7	19.150	19.94	83.6	17.30	84.0	.0085	.6312	18.10.8	H	11 12 „
8	19.424	19.99	83.5	17.37	83.9	.0093	.6319	18.11.1	H	Midnight.
9	19.561	19.94	83.2	17.40	83.8	.0085	.6323	18.11.3	C	1 12 a. m.
10	19.424	19.98	83.1	17.41	83.8	.0091	.6324	18.11.3	C	2 12 „
11	19.493	19.00	83.0	17.45	83.7	.0095	.6328	18.11.4	C	3 12 „
12	19.699	19.03	82.9	17.51	83.5	.0099	.6335	18.11.7	C	4 12 „
13	19.973	19.00	82.4	17.71	83.0	.0095	.6357	18.12.6	L	5 12 „
14	20.796	19.13	82.5	17.84	83.0	.0116	.6371	18.12.7	L	6 12 „
15	20.453	19.11	81.9	17.94	82.1	.0103	.6382	18.13.4	L	7 12 „
16	20.247	19.37	81.6	17.84	82.0	.0157	.6371	18.12.2	L	8 12 „
17	19.699	19.50	82.2	17.86	82.5	.0177	.6373	18.12.1	C	9 12 „
18	18.738	19.72	82.9	17.69	82.6	.0214	.6354	18.11.0	C	10 12 „
19	18.464	19.19	82.5	17.63	82.6	.0126	.6348	18.11.8	C	11 12 „
20	17.503	19.49	83.2	17.69	83.0	.0175	.6354	18.11.4	C	Noon.
21	17.641	19.48	83.8	17.76	83.3	.0173	.6362	18.11.7	H	1 12 p. m.
22	18.189	19.20	83.0	17.79	83.0	.0118	.6365	18.12.5	H	2 12 „
23	18.670	19.29	83.5	17.87	83.0	.0132	.6374	18.12.7	H	3 12 „

On the 23rd, at about 19h., Dip as obtained by Observation was 18°54'4.

DAILY OBSERVATIONS FROM 27TH TO 29TH JULY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
JULY 27TH-Noon.	19·424	19.17	83°0	17.89	83°0	8.0124	2.6376	18°12′9	H	4 12 p. m.
1	19.493	18.93	81.7	17.88	82.1	.0083	.6375	18.13.5	L	5 12 „
2	19.287	18.89	81.3	17.82	81.9	.0077	.6369	18.13.2	L	6 12 „
3	18.944	18.90	81.3	17.93	81.8	.0079	.6381	18.13.7	L	7 12 „
4	18.875	18.83	81.0	18.00	81.4	.0067	.6389	18.14.1	L	8 12 „
5	18.875	18.87	80.8	18.03	81.0	.0075	.6392	18.14.1	H	9 12 „
6	19.081	18.90	80.8	18.13	81.0	.0079	.6403	18.14.6	H	10 12 „
7	19.356	19.11	80.9	18.19	81.0	.0113	.6409	18.14.4	H	11 12 „
8	19.424	19.06	80.8	18.23	80.9	.0105	.6414	18.14.6	H	Midnight.
9	19.699	18.87	80.6	18.30	80.8	.0075	.6422	18.15.3	C	1 12 a. m.
10	19.424	18.95	80.5	18.32	80.6	.0087	.6424	18.15.2	C	2 12 „
11	19.597	18.95	80.5	18.42	80.6	.0087	.6435	18.15.7	C	3 12 „
12	19.630	18.99	80.5	18.44	80.5	.0093	.6437	18.15.8	C	4 12 „
13	20.110	18.94	80.2	18.53	80.4	.0085	.6447	18.16.2	L	5 12 „
14	20.590	18.95	80.1	18.36	80.2	.0087	.6428	18.15.4	L	6 12 „
15	20.453	18.92	80.1	18.45	80.0	.0083	.6438	13.16.0	L	7 12 „
16	19.493	19.02	80.1	18.34	80.0	.0099	.6426	18.15.2	L	8 12 „
17	18.258	19.15	80.3	18.38	80.3	.0120	.6430	18.15.1	C	9 12 „
18	18.121	19.38	80.3	18.51	80.3	.0157	.6445	18.15.2	C	10 12 „
19	17.503	19.71	80.4	18.56	80.4	.0211	.6450	18.14.8	C	11 12 „
20	17.366	19.50	80.2	18.52	80.2	.0177	.6446	18.15.0	C	Noon.
21	17.298	19.65	80.4	18.59	80.2	.0202	.6453	18.15.0	H	1 12 p. m.
22	17.503	19.59	80.5	18.59	80.2	.0181	.6453	18.15.3	H	2 12 „
23	17.709	19.50	80.8	18.61	80.2	.0177	.6459	18.15.8	H	3 12 „
JULY 28TH-Noon.	18.395	19.31	80.6	18.76	80.2	.0146	.6472	18.16.2	H	4 12 „
1	19.218	19.13	80.3	18.70	80.0	.0116	.6466	18.16.4	L	5 12 „
2	19.287	18.95	80.0	18.56	80.0	.0087	.6450	18.16.3	L	6 12 „
3	18.807	18.83	79.7	18.55	80.0	.0067	.6449	18.16.5	L	7 12 „
4	18.670	18.82	79.4	18.54	79.9	.0067	.6448	18.16.5	L	8 12 „
5	18.601	18.90	79.7	18.49	79.8	.0079	.6442	18.16.1	H	9 12 „
6	18.738	18.95	79.5	18.51	79.7	.0087	.6445	18.16.1	H	10 12 „
7	18.738	18.98	79.6	18.53	79.7	.0091	.6447	18.16.2	H	11 12 „
8	18.807	18.99	79.6	18.53	79.7	.0093	.6447	18.16.2	H	Midnight.
9	19.013	19.05	19.8	18.58	79.9	.0103	.6452	18.16.2	C	1 12 a. m.
10	19.081	19.06	79.8	18.55	79.9	.0105	c .6449	18.16.0	C	2 12 „
11	19.081	19.06	79.9	18.50	80.0	.0105	.6444	18.15.8	C	3 12 „
12	19.218	19.03	80.0	18.60	80.0	.0099	.6455	18.16.4	C	4 12 „
13	19.424	19.17	79.9	18.64	80.0	.0124	.6459	18.16.2	L	5 12 „
14	20.110	19.15	79.9	18.65	80.0	.0120	.6460	18 16.2	L	6 12 „
15	20.728	19.16	79.9	18.59	79.7	.0122	.6453	18.16.0	L	7 12 „
16	20.385	19.17	79.8	18.51	79.6	.0124	.6445	18.15.7	L	8 12 „
17	19.630	19.31	80.3	18.29	80.3	.0146	.6420	18.14.3	C	9 12 „
18	18.875	19.44	81.0	18.02	80.7	.0167	.6391	18.12.9	C	10 12 „
19	18.670	19.53	82.0	18.05	81.6	.0181	.6394	18.12.9	C	11 12 „
20	18.464	19.52	82.0	17.95	81.6	.0181	.6383	18.12.5	C	Noon.
21	18.327	19.45	82.0	17.97	81.6	.0169	.6385	18.12.7	H	1 12 p. m.
22	18.738	19.31	82.0	17.96	81.5	.0146	.6384	18.12.8	H	2 12 „
23	19.424	19.06	81.2	18.05	81.5	.0105	.6394	18.13.8	H	3 12 „
JULY 29TH-Noon.	20.042	18.84	80.5	18.04	81.2	.0069	.6393	18.14.3	H	4 12 „
1	19.699	18.72	80.0	17.87	80.4	.0050	.6374	18.13.7	L	5 12 „
2	19.424	18.68	79.4	17.95	80.2	.0042	.6383	18.14.3	L	6 12 „
3	18.670	18.64	78.9	17.96	80.0	.0036	.6384	18.14.1	L	7 12 „
4	18.532	18.60	79.2	18.07	80.0	.0030	.6396	18 14.9	L	8 12 „
5	18.327	18.71	79.4	18.07	80.0	.0047	.6396	18.14.6	H	9 12 „
6	18.532	18.84	79.5	18.12	79.9	.0069	.6402	18.14.6	H	10 12 „
7	18.944	18.88	79.8	18.06	79.9	.0075	.6395	18.14.3	H	11 12 „
8	18.738	19.03	79.9	18.05	80.0	.0099	.6394	18.13.9	H	Midnight.
9	18.807	18.99	79.9	18.05	80.3	.0093	.6394	18.14.0	C	1 12 a. m.
10	18.875	18.96	79.8	18.06	80.2	.0089	.6395	18.14.1	C	2 12 „
11	19.150	19.01	79.6	18.12	80.1	.0096	.6402	18.14.2	C	3 12 „

On the 27th, at about 19h., Dip as obtained by Observation was 19°16′2.

DAILY OBSERVATIONS FROM 29TH TO 31ST JULY 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
JULY 29TH—12	19'356	19.10	79°5	18.13	80°0	8.0112	2.6403	18°14'2	C	4 12 a. m.
13	20.042	19.16	79.3	18.24	79.9	.0122	.6415	18.14.5	L	5 12 „
14	20.796	19.07	79.1	18.25	79.2	.0107	.6416	18.14.7	L	6 12 „
15	21.415	19.23	79.1	18.16	79.0	.0122	.6406	18.14.1	L	7 12 „
16	21.415	19.24	78.9	18.02	79.0	.0124	.6391	18.13.5	L	8 12 „
17	20.453	19.37	79.3	17.87	79.5	.0157	.6374	18.12.3	C	9 12 „
18	19.767	19.56	79.9	17.71	79.7	.0187	.6357	18.11.4	C	10 12 „
19	18.670	19.57	80.6	17.60	80.1	.0189	.6345	18.10.9	C	11 12 „
20	18.258	19.60	80.9	17.62	80.4	.0194	.6347	18.11.0	C	Noon.
21	17.709	19.43	80.8	17.41	80.4	.0165	.6324	18.10.3	H	1 12 p. m.
22	17.160	19.34	80.9	17.65	80.4	.0151	.6350	18.11.6	H	2 12 „
23	18.601	19.12	79.3	17.80	79.3	.0116	.6367	18.12.6	H	3 12 „
JULY 30TH-Noon.	19.699	19.22	80.0	17.92	80.0	.0122	.6380	18.13.1	H	4 12 „
1	18.944	19.20	80.4	17.84	80.0	.0118	.6371	18.12.7	L	5 12 „
2	18.807	19.16	80.5	17.77	80.4	.0122	.6363	18.12.4	L	6 12 „
3	18.875	19.03	80.2	17.70	80.6	.0099	.6356	18.12.5	L	7 12 „
4	18.738	19.09	80.4	17.65	80.6	.0109	.6350	18.12.2	L	8 12 „
5	18.670	19.11	80.5	17.62	80.5	.0113	.6347	18.12.1	H	9 12 „
6	18.807	19.14	80.7	17.61	80.6	.0118	.6346	18.11.8	H	10 12 „
7	18.807	19.16	80.8	17.58	80.6	.0122	.6342	18.11.6	H	11 12 „
8	19.150	19.09	80.8	17.56	80.6	.0109	.6340	18.11.8	H	Midnight.
9	19.218	19.12	80.9	17.52	81.1	.0116	.6336	18.11.4	C	1 12 a. m.
10	19.013	19.21	80.9	17.46	81.1	.0119	.6330	18.11.2	C	2 12 „
11	19.287	19.10	80.9	17.43	81.2	.0112	.6327	18.11.3	C	3 12 „
12	19.287	19.07	80.8	17.41	81.1	.0097	.6320	18.11.2	C	4 12 „
13	19.561	18.99	80.5	17.48	81.0	.0093	.6331	18.11.6	L	5 12 „
14	20.247	19.06	80.6	17.46	81.0	.0105	.6329	18.11.3	L	6 12 „
15	20.110	19.17	80.7	17.16	81.0	.0124	.6296	18.09.9	L	7 12 „
16	19.356	19.45	81.0	16.98	81.2	.0169	.6276	18.08.4	L	8 12 „
17	18.052	19.62	81.0	16.82	81.4	.0198	.6259	18.07.4	C	9 12 „
18	16.543	19.82	81.6	16.76	81.8	.0230	.6252	18.06.7	C	10 12 „
19	15.514	19.90	81.9	16.78	81.9	.0243	.6254	18.06.7	C	11 12 „
20	15.788	19.75	81.7	16.94	81.6	.0218	.6272	18.07.5	C	Noon.
21	16.680	19.74	82.5	16.96	82.0	.0216	.6274	18.07.6	H	1 12 p. m.
22	17.298	19.68	83.0	16.84	82.5	.0198	.6261	18.07.4	H	2 12 „
23	18.121	19.42	83.0	16.58	82.6	.0165	.6232	18.06.7	H	3 12 „
JULY 31ST-Noon.	17.572	19.37	82.5	16.48	82.6	.0157	.6221	18.06.4	H	4 12 „
1	17.435	19.22	82.0	16.49	82.3	.0122	.6222	18.06.9	L	5 12 „
2	17.709	19.15	81.6	16.65	82.2	.0120	.6240	18.07.7	L	6 12 „
3	18.189	18.93	81.0	16.68	81.9	.0083	.6243	18.08.0	L	7 12 „
4	18.327	18.90	80.5	16.80	81.4	.0079	.6257	18.09.0	L	8 12 „
5	18.601	18.93	80.2	16.81	81.0	.0083	.6258	18.09.0	H	9 12 „
6	18.875	18.91	80.2	16.95	81.0	.0080	.6273	18.09.5	H	10 12 „
7	19.081	18.84	80.0	16.97	80.6	.0069	.6275	18.09.7	H	11 12 „
8	19.630	18.95	80.0	17.03	80.0	.0087	.6282	18.09.6	H	Midnight.
9	19.767	19.04	79.4	17.14	79.8	.0101	.6294	18.10.0	C	1 12 a. m.
10	19.904	18.86	79.2	17.16	79.8	.0073	.6296	18.10.5	C	2 12 „
11	19.836	18.78	79.3	17.21	79.7	.0058	.6302	18.10.8	C	3 12 „
12	19.561	18.67	79.1	17.26	79.7	.0042	.6307	18.11.4	C	4 12 „
13	19.836	18.78	78.9	17.38	79.3	.0058	.6320	18.11.6	L	5 12 „
14	20.933	18.89	78.9	17.47	79.3	.0085	.6330	18.11.6	L	6 12 „
15	21.002	18.91	78.6	17.22	79.1	.0080	.6303	18.10.7	L	7 12 „
16	19.836	19.12	78.4	17.09	79.0	.0116	.6288	18.09.5	L	8 12 „
17	18.670	19.48	78.9	17.06	79.3	.0173	.6285	18.08.8	C	9 12 „
18	17.709	19.65	79.1	17.12	79.5	.0202	.6293	18.08.7	C	10 12 „
19	17.572	19.83	79.9	17.22	79.8	.0230	.6303	18.08.7	C	11 12 „
20	17.503	19.99	80.4	17.20	80.1	.0257	.6301	18.08.2	C	Noon.
21	17.641	19.72	79.5	17.40	80.1	.0214	.6323	18.09.8	H	1 12 p. m.
22	17.984	19.48	79.0	17.48	79.5	.0173	.6331	18.10.6	H	2 12 „
23	17.794	19.38	79.0	17.47	79.5	.0157	.6330	18.10.7	H	3 12 „

On the 30th, at about 19h., Dip as obtained by Observation was 19°22'2.

DAILY OBSERVATIONS FROM 2ND TO 5TH AUGUST 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Aug. 2nd-Noon.	18°944	19.32	81°1	16.27	81°7	8.0149	2.6199	18°05′6	C	4 12 p. m.
1	18.121	19.27	81.1	16.05	81.8	.0130	.6174	18.04.9	H	5 12 „
2	17.984	19.11	80.0	16.14	81.0	.0113	.6184	18.05.6	H	6 12 „
3	18.121	19.00	80.0	16.23	81.0	.0095	.6194	18.06.1	H	7 12 „
4	18.121	19.04	80.0	16.32	80.8	.0101	.6204	18.06.5	H	8 12 „
5	18.189	19.01	79.7	17.37	80.7	.0096	.6209	18.06.7	L	9 12 „
6	18.258	19.08	79.6	16.50	80.5	.0107	.6224	18.07.2	L	10 12 „
7	18.395	19.13	79.6	16.56	80.5	.0116	.6230	18.07.3	L	11 12 „
8	18.738	19.20	79.3	16.63	80.4	.0118	.6238	18.07.6	L	Midnight.
9	19.013	19.19	79.5	16.61	80.4	.0126	.6236	18.07.4	C	1 12 a. m.
10	19.218	19.24	79.7	16.56	80.4	.0124	.6230	18.07.3	C	2 12 „
11	19.287	19.13	79.6	16.56	80.3	.0116	.6230	18.07.3	C	3 12 „
12	19.493	19.13	79.8	16.56	80.3	.0116	.6230	18.07.3	C	4 12 „
13	19.699	19.06	79.6	16.61	80.1	.0105	.6225	18.07.3	H	5 12 „
14	20.796	18.99	79.6	16.75	80.0	.0093	.6251	18.08.5	H	6 12 „
15	21.345	19.15	79.9	16.62	80.0	.0120	.6237	18.07.6	H	7 12 „
16	20.933	19.36	80.1	16.41	80.3	.0155	.6214	18.06.1	H	8 12 „
17	19.424	19.69	80.6	16.23	80.4	.0208	.6194	18.04.7	L	9 12 „
18	18.327	19.92	81.1	16.18	80.9	.0247	.6188	18.03.9	L	10 12 „
19	17.503	20.07	82.0	16.04	81.4	.0271	.6173	18.03.1	L	11 12 „
20	16.817	20.01	82.5	15.72	82.0	.0260	.6138	18.01.9	L	Noon.
21	15.926	20.00	82.5	15.52	82.3	.0259	.6116	18.01.0	C	1 12 p. m.
22	15.583	19.98	82.4	15.79	82.4	.0255	.6145	18.02.2	C	2 12 „
23	16.955	19.85	82.4	15.88	82.5	.0234	.6155	18.03.0	C	3 12 „
Aug. 3rd-Noon.	18.258	19.37	81.6	15.87	82.2	.0157	.6154	18.03.8	C	4 12 „
1	18.464	19.24	81.6	15.76	82.0	.0124	.6142	18.03.8	H	5 12 „
2	18.875	19.01	81.2	15.68	82.0	.0096	.6133	18.03.8	H	6 12 „
3	18.327	18.92	81.0	15.67	81.9	.0083	.6132	18.04.0	H	7 12 „
4	18.670	18.81	81.0	15.75	81.7	.0064	.6141	18.03.6	H	8 12 „
5	18.944	18.65	81.0	15.80	81.7	.0038	.6147	18.04.2	L	9 12 „
6	18.944	18.68	80.9	15.80	81.5	.0042	.6147	18.04.2	L	10 12 „
7	19.081	18.81	80.8	15.84	81.4	.0064	.6151	18.04.0	L	11 12 „
8	19.356	18.80	80.7	15.86	81.4	.0063	.6153	18.04.1	L	Midnight.
9	19.493	18.84	80.7	15.86	81.3	.0069	.6153	18.04.0	C	1 12 a. m.
10	19.493	18.93	80.6	15.87	81.3	.0083	.6154	18.03.4	C	2 12 „
11	19.287	19.00	80.5	15.86	81.3	.0095	.6153	18.04.6	C	3 12 „
12	19.356	18.92	80.3	15.89	81.0	.0083	.6156	18.04.0	C	4 12 „
13	19.561	18.90	80.3	16.01	81.0	.0079	.6170	18.04.5	H	5 12 „
14	20.659	18.87	80.3	16.08	81.0	.0075	.6177	18.04.8	H	6 12 „
15	20.865	18.83	80.2	15.98	80.9	.0067	.6166	18.04.4	H	7 12 „
16	20.590	18.98	80.9	15.88	81.0	.0091	.6155	18.03.8	H	8 12 „
17	19.150	19.03	80.8	15.59	80.9	.0099	.6123	18.03.4	L	9 12 „
18	17.641	19.19	80.5	15.54	80.6	.0126	.6118	18.02.8	L	10 12 „
19	17.092	19.32	80.4	15.60	80.5	.0149	.6125	18.02.8	L	11 12 „
20	17.023	19.48	81.1	15.70	80.8	.0173	.6136	18.03.0	L	Noon.
21	16.955	19.46	81.4	15.70	81.5	.0171	.6136	18.03.0	C	1 12 p. m.
22	17.160	19.46	82.0	15.71	82.0	.0171	.6137	18.03.1	C	2 12 „
23	18.395	19.40	82.5	15.68	82.5	.0161	.6133	18.03.0	C	3 12 „
Aug. 5th-Noon.	19.013	19.29	80.9	15.54	81.5	.0132	.6118	18.02.8	H	4 12 „
1	19.493	19.19	80.9	15.55	81.5	.0126	.6119	18.02.8	H	5 12 „
2	19.150	19.10	80.4	15.46	81.3	.0112	.6109	18.02.7	H	6 12 „
3	18.807	19.04	80.5	15.54	81.2	.0101	.6118	18.03.2	H	7 12 „
4	18.395	18.98	80.3	15.53	81.0	.0091	.6117	18.03.3	H	8 12 „
5	18.670	19.03	80.3	15.67	81.0	.0099	.6132	18.03.7	L	9 12 „
6	18.944	19.08	80.3	15.68	81.0	.0108	.6133	18.03.7	L	10 12 „
7	18.875	19.09	80.3	15.75	80.9	.0109	.6141	18.04.0	L	11 12 „
8	19.013	19.06	80.3	15.69	80.9	.0105	.6134	18.03.7	L	Midnight.
9	18.944	19.12	80.0	15.76	80.7	.0116	.6142	18.03.8	C	1 12 a. m.
10	19.150	19.03	79.9	15.78	80.5	.0099	.6144	18.04.2	C	2 12 „
11	19.150	19.00	79.5	15.85	80.3	.0095	.6152	18.04.5	C	3 12 „

On the 3rd, at about 19h., Dip as obtained by Observation was 19°25′3.

DAILY OBSERVATIONS FROM 5TH TO 7TH AUGUST 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Aug. 5th—12	19'424	18.99	79°2	15.92	86°0	8.0093	2.6160	18°04'9	C	4 12 a. m.
13	19.699	19.10	79.2	16.03	79.9	.0112	.6172	18.05.1	H	5 12 ,,
14	20.453	19.21	79.5	16.13	79.9	.0119	.6183	18.05.4	H	6 12 ,,
15	20.796	19.37	79.8	16.10	80.0	.0157	.6180	18.04.8	H	7 12 ,,
16	20.590	19.52	79.8	16.00	80.0	.0181	.6169	18.04.1	H	8 12 ,,
17	19.904	19.68	80.0	15.82	80.0	.0206	.6149	18.03.0	L	9 12 ,,
18	18.121	19.95	80.3	15.62	80.1	.0251	.6127	18.01.6	L	10 12 ,,
19	17.365	20.04	80.2	15.59	80.2	.0265	.6123	18.01.2	L	11 12 ,,
20	16.955	20.07	80.7	15.71	80.4	.0281	.6137	18.01.7	L	Noon.
21	17.709	19.92	80.7	15.80	80.7	.0247	.6147	18.02.4	C	1 12 p. m.
22	18.807	19.79	80.8	15.85	80.7	.0224	.6152	18.02.9	C	2 12 ,,
23	19.150	19.68	81.0	15.83	81.0	.0206	.6150	18.03.1	C	3 12 ,,
Aug. 6th-Noon.	18.875	19.52	80.7	16.07	80.8	.0181	.6176	18.04.4	C	4 12 ,,
1	18.944	19.33	80.5	16.02	80.5	.0149	.6171	18.04.5	H	5 12 ,,
2	18.670	19.17	80.0	15.93	80.4	.0124	.6161	18.04.5	H	6 12 ,,
3	18.189	19.11	79.8	15.96	80.1	.0113	.6164	18.04.8	H	7 12 ,,
4	18.052	19.08	80.0	16.02	80.1	.0107	.6171	18.05.1	H	8 12 ,,
5	18.189	19.09	80.0	16.05	80.3	.0109	.6174	18.05.2	L	9 12 ,,
6	18.395	19.04	80.0	16.06	80.3	.0101	.6175	18.05.4	L	10 12 ,,
7	18.601	19.04	80.0	16.06	80.4	.0101	.6175	18.05.4	L	11 12 ,,
8	18.875	19.06	80.0	16.08	80.4	.0105	.6177	18.05.4	L	Midnight.
9	19.013	19.10	80.0	16.02	80.5	.0112	.6171	18.05.1	C	1 12 a. m.
10	19.150	19.02	79.8	16.04	80.3	.0099	.6173	18.05.3	C	2 12 ,,
11	19.287	19.05	79.6	16.07	80.2	.0103	.6176	18.05.4	C	3 12 ,,
12	19.356	19.03	79.6	16.02	80.1	.0099	.6171	18.05.2	C	4 12 ,,
13	19.356	19.13	79.7	16.02	80.0	.0116	.6171	18.04.9	H	5 12 ,,
14	20.110	19.26	79.9	16.10	80.1	.0128	.6180	18.05.2	H	6 12 ,,
15	20.522	19.39	80.0	16.15	80.1	.0159	.6185	18.05.0	H	7 12 ,,
16	20.659	19.57	80.1	16.09	80.4	.0189	.6178	18.04.3	H	8 12 ,,
17	19.836	19.81	80.6	15.77	80.8	.0227	.6143	18.02.5	L	9 12 ,,
18	18.738	20.09	81.2	15.58	81.0	.0273	.6122	18.01.1	L	10 12 ,,
19	17.641	20.20	81.9	15.32	81.4	.0292	.6094	17.59.7	L	11 12 ,,
20	16.612	20.15	81.7	15.23	81.6	.0284	.6084	17.59.5	L	Noon.
21	16.543	20.09	82.2	15.08	82.0	.0273	.6067	17.59.0	H	1 12 p. m.
22	16.200	19.98	82.4	14.94	82.1	.0255	.6052	17.58.5	H	2 12 ,,
23	16.817	19.75	82.6	15.07	82.2	.0218	.6066	17.59.5	H	3 12 ,,
Aug. 7th-Noon.	18.121	19.38	82.1	15.17	82.2	.0157	.6077	18.00.8	H	4 12 ,,
1	19.424	19.05	81.8	15.26	82.0	.0103	.6086	18.01.9	H	5 12 ,,
2	19.081	18.94	81.5	15.11	82.0	.0085	.6071	18.01.4	H	6 12 ,,
3	18.875	18.68	81.0	15.13	81.5	.0042	.6073	18.02.2	H	7 12 ,,
4	18.738	18.64	81.0	15.23	81.5	.0036	.6084	18.02.6	H	8 12 ,,
5	18.464	18.60	81.0	15.32	81.2	.0030	.6094	18.03.1	L	9 12 ,,
6	18.670	18.59	80.9	15.38	81.1	.0027	.6100	18.03.4	L	10 12 ,,
7	18.875	18.95	81.0	15.42	81.1	.0087	.6105	18.02.8	L	11 12 ,,
8	19.150	19.06	80.9	15.45	81.0	.0105	.6108	18.02.7	L	Midnight.
9	19.013	19.09	81.0	15.49	81.2	.0109	.6112	18.02.8	C	1 12 a. m.
10	19.287	19.07	80.6	15.49	81.0	.0107	.6112	18.02.8	C	2 12 ,,
11	19.493	18.96	80.2	15.55	80.7	.0089	.6119	18.03.3	C	3 12 ,,
12	20.110	18.72	80.0	15.62	80.6	.0050	.6127	18.04.2	C	4 12 ,,
13	19.699	18.94	80.0	15.67	80.6	.0085	.6132	18.03.8	H	5 12 ,,
14	20.659	18.99	80.1	15.80	80.6	.0093	.6147	18.03.5	H	6 12 ,,
15	21.415	18.96	80.2	15.84	80.6	.0089	.6151	18.04.6	H	7 12 ,,
16	21.208	19.03	80.7	15.67	80.7	.0099	.6132	18.03.7	H	8 12 ,,
17	20.110	19.17	81.1	15.48	80.9	.0124	.6111	18.02.6	L	9 12 ,,
18	18.258	19.46	81.3	15.18	81.0	.0171	.6078	18.00.7	L	10 12 ,,
19	17.023	19.89	81.4	15.18	81.0	.0240	.6078	17.59.8	L	11 12 ,,
20	16.543	19.95	81.8	15.27	81.2	.0251	.6088	18.00.0	L	Noon.
21	15.720	19.97	82.1	15.15	81.7	.0255	.6075	19.59.4	C	1 12 p. m.
22	15.788	19.80	82.0	15.17	81.7	.0226	.6077	19.59.9	C	2 12 ,,
23	16.749	19.49	82.0	15.08	82.0	.0175	.6067	18.00.2	C	3 12 ,,

On the 6th, at about 19h., Dip as obtained by Observation was 19°03'2.
On the 6th, at about 23h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 9TH TO 11TH AUGUST 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. + Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.	′									h. m.
AUG. 9TH-Noon.	19′424	19.13	81°1	15.17	81°5	8.0116	2.6077	18°01′3	H	4 12 p. m.
1	19.836	18.90	81.0	15.15	81.5	.0079	.6075	18.01.8	H	5 12 „
2	19.493	18.86	80.8	15.04	81.4	.0073	.6074	18.01.8	H	6 12 „
3	18.670	18.86	80.6	15.03	81.1	.0073	.6073	18.01.8	H	7 12 „
4	18.670	18.86	80.6	15.15	81.0	.0073	.6075	18.01.8	H	8 12 „
5	18.738	18.86	80.3	15.25	81.0	.0073	.6086	18.02.3	L	9 12 „
6	18.738	18.89	80.2	15.28	81.0	.0077	.6089	18.02.3	L	10 12 „
7	18.875	18.89	80.2	15.31	80.9	.0077	.6093	18.02.5	L	11 12 „
8	18.944	18.92	80.2	15.32	80.8	.0083	.6094	18.02.5	L	Midnight.
9	18.875	18.94	80.2	15.37	80.8	.0085	.6099	18.02.5	C	1 12 a. m.
10	18.944	19.04	80.3	15.29	80.9	.0105	.6090	18.02.0	C	2 12 „
11	19.081	19.03	80.2	15.32	80.9	.0099	.6094	18.02.2	C	3 12 „
12	19.013	19.00	80.0	15.34	80.7	.0095	.6096	18.02.3	C	4 12 „
13	19.356	19.07	80.0	15.39	80.2	.0107	.6101	18.02.4	H	5 12 „
14	20.522	19.05	80.0	15.55	80.3	.0103	.6119	18.03.2	H	6 12 „
15	21.688	19.10	80.0	15.51	80.3	.0112	.6115	18.03.0	H	7 12 „
16	21.758	19.27	80.1	15.39	80.4	.0130	.6101	18.02.1	H	8 12 „
17	20.110	19.50	80.1	14.99	80.4	.0177	.6057	17.59.9	L	9 12 „
18	17.984	19.71	80.2	14.95	80.1	.0211	.6053	17.59.3	L	10 12 „
19	17.160	19.66	80.3	14.90	80.0	.0204	.6048	17.59.2	L	11 12 „
20	16.543	19.65	80.5	15.03	80.3	.0204	.6073	18.00.1	L	Noon.
21	16.269	19.77	80.9	15.21	80.9	.0222	.6082	18.00.1	C	1 12 p. m.
22	17.092	19.57	80.4	15.46	80.7	.0189	.6109	18.01.6	C	2 12 „
23	17.984	19.36	80.3	15.42	80.5	.0155	.6105	18.01.9	C	3 12 „
AUG. 10TH-Noon.	18.464	19.23	80.2	15.36	80.3	.0122	.6098	18.02.1	H	4 12 „
1	19.081	19.05	80.1	15.39	80.2	.0103	.6101	18.02.5	H	5 12 „
2	18.670	19.02	80.0	15.33	80.2	.0099	.6095	18.02.3	H	6 12 „
3	18.327	18.94	80.0	15.32	80.1	.0085	.6094	18.02.3	H	7 12 „
4	18.327	18.97	80.0	15.40	80.1	.0091	.6103	18.02.7	H	8 12 „
5	18.601	18.99	79.9	15.46	80.3	.0093	.6109	18.02.9	L	9 12 „
6	18.670	18.98	79.9	15.43	80.2	.0091	.6106	18.02.8	L	10 12 „
7	18.738	18.98	79.9	15.41	80.3	.0091	.6104	18.02.7	L	11 12 „
8	18.807	19.00	80.0	15.41	80.4	.0095	.6104	18.02.6	L	Midnight.
9	18.944	19.01	80.0	15.38	80.4	.0096	.6100	18.02.5	C	1 12 a. m.
10	19.013	19.04	80.1	15.40	80.7	.0101	.6103	18.02.6	C	2 12 „
11	19.013	19.03	80.0	15.37	80.5	.0099	.6099	18.02.4	C	3 12 „
12	18.875	19.04	80.0	15.37	80.2	.0101	.6099	18.02.4	C	4 12 „
13	18.944	19.06	80.0	15.41	80.2	.0105	.6104	18.02.5	H	5 12 „
14	19.904	19.04	80.0	15.51	80.2	.0101	.6115	18.03.1	H	6 12 „
15	21.276	18.96	79.8	15.56	80.1	.0089	.6120	18.03.4	H	7 12 „
16	21.758	19.10	79.8	15.50	80.1	.0112	.6114	18.02.9	H	8 12 „
17	21.345	19.40	80.0	15.15	80.0	.0161	.6064	18.00.2	L	9 12 „
18	20.110	19.73	80.6	14.91	80.2	.0214	.6049	17.59.1	L	10 12 „
19	18.875	19.91	80.9	14.73	80.4	.0244	.6029	17.57.9	L	11 12 „
20	17.984	20.13	81.6	14.65	81.0	.0280	.6020	17.57.1	L	Noon.
21	17.572	19.77	82.1	14.75	81.8	.0222	.6031	17.58.1	C	1 12 p. m.
22	17.366	19.06	80.6	14.82	80.6	.0105	.6039	18.00.0	C	2 12 „
23	17.435	19.16	80.2	14.81	80.3	.0122	.6038	17.59.8	C	3 12 „
AUG. 11TH-Noon.	18.670	19.09	80.6	15.44	80.5	.0109	.6107	18.02.7	H	4 12 „
1	19.013	19.01	80.0	15.76	80.3	.0096	.6142	18.04.1	H	5 12 „
2	18.670	18.93	80.0	15.21	80.3	.0083	.6082	18.02.0	H	6 12 „
3	18.258	18.93	80.1	15.13	80.4	.0083	.6073	18.01.7	H	7 12 „
4	18.189	18.90	80.1	15.14	80.5	.0079	.6074	18.01.7	H	8 12 „
5	18.464	18.89	80.0	15.16	80.4	.0077	.6076	18.01.8	L	9 12 „
6	18.464	18.97	80.0	15.24	80.5	.0091	.6085	18.02.0	L	10 12 „
7	18.601	18.98	79.9	15.26	80.2	.0091	.6087	18.02.1	L	11 12 „
8	18.944	18.92	80.0	15.30	80.1	.0083	.6092	18.02.4	L	Midnight.
9	19.013	19.21	80.0	15.30	80.3	.0119	.6093	18.01.9	H	1 12 a. m.
10	19.013	19.11	80.0	15.26	80.3	.0113	.6087	18.01.9	H	2 12 „
11	19.150	19.33	80.0	15.31	80.3	.0122	.6093	18.01.9	H	3 12 „

DAILY OBSERVATIONS FROM 11TH TO 13TH AUGUST 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Aug. 11th—12	19·356	19.35	80°0	15.31	80°3	8.0153	2.6093	18°01'5	H	4 12 a. m.
13	19.836	19.23	80.0	15.33	80.3	·0122	.6095	18.02.0	H	5 12 „
14	20.385	18.98	80.1	15.39	80.4	.0091	.6101	18·02.6	H	6 12 „
15	20.659	19.18	80.4	15.40	80.6	.0124	.6103	18.02.3	H	7 12 „
16	20.796	19.35	80.7	15.14	80.8	.0153	.6074	18.00.7	H	8 12 „
17	19.767	19.53	80.9	14.78	81.0	.0181	.6034	17.58.9	L	9 12 „
18	18.052	19.72	81.2	14.45	81.1	.0214	.5998	17.57.1	L	10 12 „
19	15.651	19.87	82.2	14.16	81.9	.0247	.5966	17.55.2	L	11 12 „
20	15.651	19.81	82.3	14.16	82.0	.0227	.5966	17.55.5	L	Noon.
21	15.583	19.74	82.0	14.21	82.0	.0216	.5972	17.55.8	C	1 12 p. m.
22	16.200	19.79	82.0	14.31	82.0	.0224	.5979	17.56.3	C	2 12 „
23	17.023	19.72	82.1	14.43	82.2	.0214	.5996	17.57.0	C	3 12 „
Aug. 12th-Noon.	17.709	19.53	82.3	14.45	82.4	.0181	.5998	17.57.5	H	4 12 „
1	18.670	19.25	82.0	14.37	82.2	.0126	.5989	17.57.7	C	5 12 „
2	18.944	19.11	81.6	14.31	81.9	.0113	.5983	17.57.8	C	6 12 „
3	18.258	19.00	81.1	14.26	81.7	.0095	.5977	17.57.7	C	7 12 „
4	18.189	18.97	81.0	14.33	81.6	.0091	.5985	17.58.1	C	8 12 „
5	18.395	18.87	80.9	14.40	81.4	.0075	.5993	17.58.6	L	9 12 „
6	18.395	18.92	80.9	14.48	81.4	.0083	.6001	17.58.9	L	10 12 „
7	18.807	18.88	80.7	14.54	81.2	.0075	.6008	17.59.2	L	11 12 „
8	19.218	18.86	80.1	14.55	81.0	.0073	.6009	17.59.3	L	Midnight.
9	19.356	18.97	80.1	14.61	81.0	.0093	.6016	17.59.3	C	1 12 a. m.
10	19.081	18.84	80.1	14.68	80.9	.0069	.6023	17.59.9	C	2 12 „
11	19.699	18.98	80.0	14.89	80.6	.0091	.6046	18.00.5	C	3 12 „
12	19.973	18.85	79.8	14.94	80.5	.0071	.6052	18.01.0	C	4 12 „
13	19.836	18.93	79.8	15.03	80.4	.0083	.6062	18.01.2	H	5 12 „
14	21.002	18.94	80.0	15.23	80.4	.0085	.6083	18.01.9	H	6 12 „
15	22.101	18.82	80.1	15.10	80.6	.0067	.6070	18.01.7	H	7 12 „
16	21.895	18.78	80.8	14.84	80.9	.0058	.6041	18.00.7	H	8 12 „
17	20.385	19.23	81.6	14.46	81.2	.0122	.5999	17.58.2	L	9 12 „
18	19.356	19.35	82.0	14.21	81.9	.0153	.5978	17.57.0	L	10 12 „
19	18.121	19.33	82.4	14.02	82.3	.0149	.5951	17.56.0	L	11 12 „
20	17.572	19.46	83.3	13.84	82.9	.0171	.5931	17.55.0	L	Noon.
21	16.886	19.60	83.9	13.50	83.3	.0194	.5894	17.53.2	C	1 12 p. m.
22	16.955	19.44	83.8	13.39	83.5	.0167	.5881	17.53.0	C	2 12 „
23	17.227	19.24	84.0	13.42	83.9	·0124	.5884	17.53.8	C	3 12 „
Aug. 13th-Noon.	18.052	19.01	83.5	13.45	83.4	.0096	.5888	17.54.2	G	4 12 „
1	18.395	19.00	83.1	13.45	83.3	.0095	.5888	17.54.2	H	5 12 „
2	18.738	18.89	82.5	13.59	83.0	.0077	.5903	17.55.1	H	6 12 „
3	19.630	19.05	82.0	13.68	82.7	·0103	.5913	17.55.2	H	7 12 „
4	18.738	18.84	81.8	13.75	82.4	.0069	.5921	17.55.9	H	8 12 „
5	18.601	18.68	81.3	13.87	81.8	.0042	.5934	17.56.8	L	9 12 „
6	18.670	18.70	81.0	14.04	81.3	.0046	.5953	17.57.4	L	10 12 „
7	18.875	18.74	80.9	14.19	81.2	.0052	.5969	17.57.9	L	11 12 „
8	19.013	18.84	80.8	14.25	81.0	.0069	.5976	17.58.0	L	Midnight.
9	19.013	18.98	80.6	14.36	81.0	.0091	.5988	17.58.2	G	1 12 a. m.
10	19.493	18.81	80.6	14.43	81.0	.0064	.5996	17.58.9	G	2 12 „
11	19.630	18.86	80.3	14.52	80.6	.0073	.6006	17.59.2	G	3 12 „
12	19.561	18.83	80.2	14.58	80.5	·0067	.6012	17.59.4	G	4 12 „
13	19.767	18.95	80.2	14.64	80.7	.0087	.6019	17.59.4	H	5 12 „
14	20.110	19.00	80.1	14.78	80.5	.0095	.6034	17.59.9	H	6 12 „
15	20.659	19.01	80.5	14.87	80.5	.0096	.6044	18.00.3	H	7 12 „
16	20.247	19.26	81.2	14.72	81.2	.0128	.6030	17.59.4	H	8 12 „
17	18.738	19.50	81.7	14.42	81.2	.0177	.5995	17.57.4	L	9 12 „
18	17.984	19.57	82.1	14.30	81.4	.0189	.5982	17.56.6	L	10 12 „
19	17.778	19.72	83.2	14.15	82.3	.0214	.5965	17.55.8	L	11 12 „
20	17.092	19.93	83.9	13.89	83.0	.0247	.5936	17.54.1	L	Noon.
21	17.160	19.86	84.1	13.79	83.5	.0236	.5925	17.53.9	G	1 12 p. m.
22	17.641	19.77	84.1	13.81	83.6	.0222	.5928	17.54.2	G	2 12 „
23	18.464	19.46	83.8	13.76	83.8	.0171	.5922	17.54.6	G	3 12 „

On the 13th at about 20h., Dip as obtained by Observation was 19°08'1.

DAILY OBSERVATIONS FROM 16TH TO 18TH AUGUST 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
AUG. 16TH-Noon.	19°561	19·12	81°8	14.57	82°3	8·0116	2·6011	17°58′7	H	4 12 p. m.
1	19.699	18.92	81.3	14.46	82.1	.0083	.5999	17.58.8	H	5 12 „
2	19·150	18·79	81.0	14.38	82.0	.0060	·5990	17.58.7	H	6 12 „
3	18.807	18.81	80.9	14.38	81.9	.0064	.5990	17.58.7	H	7 12 „
4	18.532	18·83	80·8	14.45	81.6	.0067	·5998	17.58.9	H	8 12 „
5	18.395	18.83	80.6	14.54	81.2	.0067	·6008	17.59.3	L	9 12 „
6	18.464	18.83	80.5	14.59	81.2	.0067	.6013	17.59.5	L	10 12 „
7	18.807	18.85	80.4	14.69	81.2	.0071	·6024	17.59.9	L	11 12 „
8	18.875	18.87	80.4	14.73	81.0	·0075	·6029	18.00.0	L	Midnight.
9	19·013	18.86	80.4	14.73	81.0	.0073	·6029	18.00.1	C	1 12 a. m.
10	18·944	18.84	80.3	14.78	81.0	.0069	.6034	18.00.3	C	2 12 „
11	19.013	18.80	80·0	14.81	80.6	.0063	.6038	18.00.6	C	3 12 „
12	18.807	18·78	79.5	15.11	80.2	.0058	.6071	18.01.8	C	4 12 „
13	18.807	18.81	79.2	15.25	80.0	.0064	.6086	18.02.5	H	5 12 „
14	19.699	18.88	79.1	15.45	79.9	·0075	.6108	18.03.1	H	6 12 „
15	20.316	19.02	79.1	15.49	79.8	.0099	.6112	18.02.9	H	7 12 „
16	19·836	19.26	79.6	15.49	79.1	.0128	.6112	18.02.5	H	8 12 „
17	18.738	19.55	80.0	15.22	80.0	.0185	.6083	18.00.6	L	9 12 „
18	17·160	19.64	80.3	15.13	80.2	.0200	.6073	18.00.1	L	10 12 „
19	16.886	19.69	81.0	15.12	80.6	.0208	.6072	17.59.9	L	11 12 „
20	16·406	19.83	82·0	14.90	81.3	.0230	.6048	17.58.8	L	Noon.
21	16·749	19.75	82.0	14.86	81.9	.0218	.6043	17.58.7	C	1 12 p. m.
22	17.229	19.44	81.7	14.85	81.8	·0167	.6042	17.59.3	C	2 12 „
23	19.013	19.26	81.3	14.93	81.6	.0128	.6053	18.00.3	C	3 12 „
AUG. 17TH-Noon.	19.630	19·16	81.1	14.85	81·6	.0122	.6042	17.59.9	C	4 12 „
1	19.493	19.08	80.9	14.74	81.3	.0107	.6030	17.59.7	H	5 12 „
2	18.670	19.07	80.8	14.66	81.2	.0107	.6021	17.59.3	H	6 12 „
3	18.395	18.94	80.6	14.73	81·1	.0085	.6029	17.59.8	H	7 12 „
4	18.395	18.89	80.5	14.83	81.1	.0077	.6040	18.00.5	H	8 12 „
5	18.601	18.79	79.9	14.87	80·7	.0060	.6044	18.00.8	L	9 12 „
6	18.670	18.91	79.9	14.97	80.5	·0080	.6055	18.01.1	L	10 12 „
7	18·738	18.95	79.9	15.07	80.5	.0087	.6066	18.01.2	L	11 12 „
8	19.150	18.98	80.0	15.10	80.6	.0091	.6070	18.01.4	L	Midnight.
9	19.150	18.99	79.9	15.17	80.6	.0093	.6077	18.01.7	C	1 12 a. m.
10	19·287	18.98	79.9	15.20	80.6	.0091	.6081	18.01.8	C	2 12 „
11	19.218	18.97	80.0	15.18	80.5	·0091	.6078	18.01.7	C	3 12 „
12	19.081	18.92	79.4	15.21	80.2	·0083	.6082	18.01.8	C	4 12 „
13	19·356	19.11	79·8	15.29	80.2	·0113	.6090	18.02.0	H	5 12 „
14	20·590	19.10	79.9	15.41	80.2	.0112	.6104	18.02.5	H	6 12 „
15	20.865	19.12	79.3	15.30	80.0	·0116	.6092	18.01.8	H	7 12 „
16	19.904	19.49	79.8	15.00	80.1	·0175	.6059	17.59.9	H	8 12 „
17	18·395	19·88	80.4	14.90	80.7	.0238	.6048	17.58.7	L	9 12 „
18	17·023	20.19	81.2	14.67	80.8	.0290	·6022	17.56.9	L	10 12 „
19	16.612	20.10	81.2	14.67	81·0	.0276	·6022	17.57.1	L	11 12 „
20	16.886	19.91	80.3	14.83	80.4	.0244	.6040	17.58.4	L	Noon.
21	17.366	19.87	80.9	15.03	80.9	·0238	.6062	17·59.1	C	1 12 p. m.
22	18·258	19.76	81.5	15.02	81.4	·0220	.6061	17.59.3	C	2 12 „
23	19.081	19·60	81.6	14.93	81.5	.0194	.6051	17.59.4	C	3 12 „
AUG. 18TH-Noon.	19.013	19.27	81.0	14.71	81.3	.0132	.6027	17.59.3	C	4 12 „
1	18·807	19.15	81.0	14.60	81·3	.0120	.6015	17·58.9	H	5 12 „
2	18·327	18.98	80.6	14.60	81.2	.0091	.6015	17.59.3	H	6 12 „
3	18.052	19.05	80.5	14.65	81.1	.0103	.6020	17.59.4	H	7 12 „
4	18.052	19.01	80.3	14.73	81.0	·0096	.6029	17.59.7	H	8 12 „
5	18.327	18.95	80.0	14.77	80.6	.0087	.6033	18.00.0	L	9 12 „
6	18.327	19.05	79.9	14.86	80·5	·0103	.6043	18.00.3	L	10 12 „
7	18.464	19.12	80.0	14.98	80.5	.0114	.6056	18.00.7	L	11 12 „
8	18·670	19.07	80·0	14.98	80.5	.0107	.6056	18.00.7	L	Midnight.
9	18.807	19.20	80.0	14.98	80.7	.0118	.6056	18·00.5	C	1 12 a. m.
10	19.150	19.20	80.0	15.00	80·7	·0118	.6059	18.00.6	C	2 12 „
11	19.287	18.96	79.5	14.99	80·3	.0089	.6057	18.01.0	C	3 12 „

On the 17th, at about 19h., Dip as obtained by Observation was 19°19′4.

DAILY OBSERVATIONS FROM 18TH TO 20TH AUGUST 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.	°									h. m.
AUG. 18TH—12	19°081	18.94	79°4	15.08	80°2	8.0085	2.6067	18°01'3	C	4 12 a. m.
13	19.424	18.87	79.6	15.09	80.2	.0091	.6068	18.01.3	H	5 12 „
14	20·522	19.04	79.8	15.23	80.4	.0101	.6084	18.01.8	H	6 12 „
15	21.002	19.15	80.0	15.11	80.4	.0120	.6071	18.01.0	H	7 12 „
16	20.385	19.21	80.3	14.77	80.6	.0119	.6033	17.59.6	H	8 12 „
17	18.258	19.61	81.0	14.34	80.7	.0195	.5986	17.56.7	L	9 12 „
18	17.298	19.61	81.0	14.27	80.7	.0195	.5978	17.56.5	L	10 12 „
19	16.955	19.69	81.0	14.26	80.8	.0208	.5977	17.56.3	L	11 21 „
20	17.092	19.62	81.1	14.43	80.9	.0198	.5996	17.57.1	L	Noon.
21	17.298	19·46	80.9	14.54	81.2	.0171	.6008	17.58.0	C	1 12 p. m.
22	18.395	19.34	81.0	14.63	81.4	.0151	.6018	17.58.6	C	2 12 „
23	18.807	19.30	81.5	14.62	81.5	.0145	.6017	17.58.6	C	3 12 „
AUG. 19TH-Noon.	18.875	19.06	81.0	14.54	81.4	.0105	.6008	17.58.8	C	4 12 „
1	19.050	19.11	81.0	14.54	81.4	.0113	.6008	17.58.8	H	5 12 „
2	18.738	19.08	80.9	14.46	81.2	.0107	.5999	17.58.4	H	6 12 „
3	18.601	18.86	80.0	14.52	80.6	.0073	.6006	17.59.2	H	7 12 „
4	18.395	18.71	79.2	14.61	80.2	.0047	.6016	17.59.8	H	8 12 „
5	18.464	18.84	79.3	14.76	80.0	.0069	.6031	18.00.2	L	9 12 „
6	19.013	18.80	79.0	14.85	79.7	.0053	.6042	18.00.8	L	10 12 „
7	18.944	18.90	79.2	14.94	79.7	·0079	.6052	18.00.9	L	11 12 „
8	18.944	18.89	79.0	15.00	79.4	.0077	.6059	18.01.2	L	Midnight.
9	19.150	18.93	79.3	15.07	79.8	.0083	.6066	18.01.4	C	1 12 a. m.
10	19.150	18.92	79.2	14.92	79.9	.0083	.6050	18.00.9	C	2 12 „
11	19.150	19.06	79.5	14.91	80.0	.0105	.6049	18.00.4	C	3 12 „
12	19.013	19.09	79.5	14.93	80.0	.0109	.6051	18.00.5	C	4 12 „
13	19.424	19.13	79.7	15.00	80.0	.0116	.6059	18.00.6	H	5 12 „
14	20.865	19.12	79.7	15.12	80.0	.0116	.6072	18.01.0	H	6 12 „
15	22.032	19.15	79.8	15.02	80.0	.0120	.6061	18.00.6	H	7 12 „
16	21.071	19.40	79·8	14.60	80.0	.0161	.6015	17.58·4	H	8 12 „
17	19.836	19.49	79.2	14.34	79.5	.0175	.5986	17.57.0	L	9 12 „
18	17.298	19.73	80.5	14.22	80.0	.0214	.5973	17.56.1	L	10 12 „
19	15.926	19.78	80.9	14.17	80.5	.0222	.5967	17.55.7	L	11 12 „
20	15.994	19.69	80.3	14.27	80.2	.0208	.5978	17.56.3	L	Noon.
21	16·269	19.85	81.0	14.42	80.8	.0234	.5995	17.56.7	C	1 12 p. m.
22	17.366	19.79	81.0	14.53	81.0	.0224	.6007	17.57.3	C	2 12 „
23	18.464	19.60	81.0	14.53	81.0	.0194	.6007	17.57.7	C	3 12 „
AUG. 20TH-Noon.	19.287	19.41	81.1	14.51	81.1	.0162	.6005	17.58.0	C	4 12 „
1	19.493	19.03	80.5	14.41	81.0	.0099	.5993	17.58.3	H	5 12 „
2	18.875	18.81	80.1	14.42	80.8	.0064	.5995	17.58.9	H	6 12 „
3	18.121	18.75	80.0	14.52	80.7	.0050	.6006	17.59.4	H	7 12 „
4	18.464	18.62	80.1	14.52	80.7	.0034	.6006	17.59.7	H	8 12 „
5	18.532	18.75	79.8	14.56	80.2	.0054	.6010	17.59.6	L	9 12 „
6	18.532	18.99	80.0	14.63	80.3	.0093	.6018	17.59.4	L	10 12 „
7	18.944	18.79	80.0	14.66	80·3	.0060	.6021	17.59.9	L	11 12 „
8	19.081	18.77	79.8	14.65	80.1	·0058	.6020	17.59.9	L	Midnight.
9	19.287	18.74	79.8	14.69	80.3	.0052	.6024	18.00.1	C	1 12 a. m.
10	19.630	18.63	79.0	14.70	79.9	.0034	.6026	18.00.5	C	2 12 „
11	19.081	18.88	79.3	14.75	80.0	.0075	.6031	18.00.1	C	3 12 „
12	19.150	18.85	79.2	14.80	79.9	.0071	.6037	18.00.5	C	4 12 „
13	19.561	18.89	79.5	15.00	79.9	.0077	.6059	18.01.2	H	5 12 „
14	21·208	19.02	79.6	15.08	80.0	.0099	.6067	18.01.2	H	6 12 „
15	22.032	19.09	78.9	14.97	79.1	.0109	.6055	18.00.7	H	7 12 „
16	21.619	19.24	78.8	14.54	79.3	.0124	.6008	17.58.6	H	8 12 „
17	19·561	19.38	78.9	14.71	78.9	.0157	.6027	17.58.9	L	9 12 „
18	17.846	19.60	79.5	14.62	79.1	.0194	.6017	17.58.1	L	10 12 „
19	16.200	19·52	80.0	14.36	79.4	.0181	.5988	17.57.1	L	11 12 „
20	15.240	19.52	80.2	14.44	79.7	.0181	.5997	17.57.1	L	Noon.
21	15.994	19.57	80.6	14.71	80.2	.0189	.6027	17.58.5	C	1 12 p. m.
22	17.366	19.55	81.0	14.82	80.7	.0185	.6039	17.58.9	C	2 12 „
23	18.738	19.40	80.9	14.82	80.5	.0161	.6039	17.59.3	C	3 12 „

DAILY OBSERVATIONS FROM 21ST TO 24TH AUGUST 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.								°		h. m.
AUG. 21ST-Noon.	19·904	19.12	79°5	14.80	80°0	8.0116	2.6037	17°59′8	N	4 12 p. m.
1	19.630	19.15	79.8	14.75	80.0	.0120	.6031	17.59.5	H	5 12 „
2	18.944	19.00	79.2	14.72	79.9	.0095	.6027	17.59.7	H	6 12 „
3	18.464	18.90	79.1	14.82	79.9	.0079	.6039	18.00.4	H	7 12 „
4	18.464	18.89	78.8	14.89	79.7	.0067	.6046	18.00.8	H	8 12 „
5	18.532	18.92	79.0	15.02	79.4	.0083	.6061	18.01.2	L	9 12 „
6	18.601	18.95	79.2	15.04	79.5	.0087	.6063	18.01.1	L	10 12 „
7	18.875	18.90	79.2	15.03	79.4	.0079	.6062	18.01.2	L	11 12 „
8	19.013	18.95	79.4	15.04	79.6	.0087	.6063	18.01.1	L	Midnight.
9	19.081	19.01	79.6	15.05	79.9	.0095	.6064	18.01.0	N	1 12 a. m.
10	19.013	18.90	79.2	15.01	79.8	.0079	.6060	18.01.2	N	2 12 „
11	19.013	18.90	79.1	14.99	79.8	.0079	.6057	18.01.2	N	3 12 „
12	19.287	18.97	79.2	14.99	79.8	.0091	.6057	18.01.0	N	4 12 „
13	20.042	19.00	79.5	15.06	79.9	.0095	.6065	18.01.1	H	5 12 „
14	21.276	19.07	79.5	15.18	79.9	.0107	.6078	18.01.5	H	6 12 „
15	22.032	19.15	79.8	15.12	80.0	.0120	.6072	18.01.0	H	7 12 „
16	21.551	19.19	80.0	14.89	80.3	.0126	.6046	18.00.0	H	8 12 „
17	20.042	19.28	80.8	14.61	80.2	.0130	.6016	17.58.8	L	9 12 „
18	18.258	19.37	82.0	14.08	81.2	.0157	.5959	17.56.2	L	10 12 „
19	17·229	19.38	82.9	13.78	82.0	.0157	.5924	17.54.8	L	11 12 „
20	16.406	19.35	83.4	13.67	82.4	.0153	.5912	17.54.4	L	Noon.
21	16.749	19.15	83.0	13.60	82.8	.0120	.5905	17.54.6	N	1 12 p. m.
22	17.709	18.96	82.4	13.58	82.0	.0089	.5902	17.54.8	N	2 12 „
23	18.464	18.87	82.1	13.77	82.2	.0075	.5923	17.55.9	N	3 12 „
AUG. 23RD-Noon.	19.081	18.96	82.9	13.60	83.3	.0089	.5905	17.55.0	H	4 12 „
1	19.287	18.80	82.5	13.43	83.0	.0063	.5886	17.54.6	H	5 12 „
2	18.807	18.72	82.0	13.31	82.9	.0050	.5873	17.54.2	H	6 12 „
3	17.984	18.52	81.5	13.33	82.6	.0017	.5875	17.54.7	H	7 12 „
4	18.464	18.31	81.2	13.45	82.2	7.9972	.5888	17.56.8	H	8 12 „
5	18.532	18.48	81.0	13.53	81.7	8.0009	.5899	17.55.8	L	9 12 „
6	18.875	18.58	80.9	13.67	81.5	.0034	.5912	17.56.0	L	10 12 „
7	19.150	18.69	80.9	13.76	81.4	.0044	.5922	17.56.3	L	11 12 „
8	19.287	18.76	80.9	13.82	81.4	.0056	.5929	17.56.3	L	Midnight.
9	19.424	18.62	80.6	13.89	81.2	.0034	.5936	17.57.0	N	1 12 a. m.
10	19.287	18.72	80.5	13.88	81.1	.0050	.5935	17.56.7	N	2 12 „
11	19.356	18.75	80.4	13.98	81.0	.0054	.5946	17.57.1	N	3 12 „
12	19.424	18.72	80.4	14.03	81.0	.0052	.5952	17.57.3	N	4 12 „
13	19.699	18.75	80.6	14.13	81.1	.0054	.5963	17.57.7	H	5 12 „
14	20.728	18.78	80.6	14.35	81.1	.0058	.5985	17.58.5	H	6 12 „
15	21.688	18.81	80.6	14.35	81.1	.0064	.5985	17.58.5	H	7 12 „
16	21.415	19.00	80.6	14.27	81.0	.0095	.5978	17.57.7	H	8 12 „
17	20.247	19.32	81.7	13.91	81.0	.0149	.5945	17.55.8	L	9 12 „
18	18.532	19.55	82.3	13.73	81.5	.0185	.5919	17.54.2	L	10 12 „
19	17.366	19.66	82.4	13.56	82.0	.0204	.5900	17.53.4	L	11 12 „
20	16.955	19.81	83.4	13.51	82.4	.0227	.5895	17.52.8	L	Noon.
21	17.023	19.83	83.9	13.59	83.0	.0230	.5903	17.53.1	N	1 12 p. m.
22	17.278	19.60	83.6	13.50	83.2	.0194	.5894	17.53.2	N	2 12 „
23	18.464	19.37	83.0	13.50	83.2	.0157	.5894	17.53.6	N	3 12 „
AUG. 24TH-Noon.	18.944	19.27	83.3	13.40	83.2	.0130	.5883	17.53.6	N	4 12 „
1	19.424	19.13	83.1	13.30	83.2	.0116	.5872	17.53.2	H	5 12 „
2	19.699	18.91	81.1	13.17	82.2	.0080	.5857	17.53.4	H	6 12 „
3	18.738	18.80	81.0	13.38	82.0	.0063	.5880	17.54.4	H	7 12 „
4	18.944	18.80	80.9	13.55	81.7	.0064	.5899	17.55.1	H	8 12 „
5	18.875	18.72	80.5	13.74	81.2	.0050	.5920	17.56.1	L	9 12 „
6	18.875	18.79	80.5	13.85	81.1	.0060	.5932	17.56.4	L	10 12 „
7	19.013	18.83	80.6	13.98	81.1	.0067	.5946	17.56.9	L	11 12 „
8	19.013	18.84	80.6	14.05	81.1	.0069	.5954	17.57.2	L	Midnight.
9	19.218	18.83	80.6	14.13	81.0	.0067	.5963	17.57.4	N	1 12 a. m.
10	19.218	18.85	80.4	14.15	81.0	.0071	.5965	17.57.6	N	2 12 „
11	19.288	18.85	80.4	14.23	81.0	.0071	.5973	17.57.9	N	3 12 „

DAILY OBSERVATIONS FROM 24TH TO 26TH AUGUST 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Aug. 24th—12	19'356	18.89	80°4	14.33	80°9	8.0077	2.5985	17°58'3	N	4 12 a. m.
13	19.493	18.88	80.5	14.37	80.9	.0075	.5989	17.58.4	H	5 12 „
14	20.385	18.95	80.6	14.51	71.0	.0087	.6005	17.58.9	H	6 12 „
15	21.345	19.04	80.6	14.53	81.1	.0099	.6007	17.58.9	H	7 12 „
16	21.415	19.19	81.1	14.44	81.5	.0126	.5997	17.58.1	H	8 12 „
17	20.385	19.53	81.8	14.02	81.2	.0181	.5951	17.55.7	L	9 12 „
18	18.532	19.80	82.0	13.67	81.7	.0226	.5912	17.53.4	L	10 12 „
19	16.955	20.14	82.9	13.51	82.0	.0282	.5895	17.52.2	L	11 12 „
20	15.994	20.31	83.8	13.46	82.8	.0309	.5889	17.51.5	L	Noon.
21	16.063	20.17	84.1	13.69	83.5	.0288	.5914	17.52.7	N	1 12 p. m.
22	17.160	20.02	84.5	13.62	84.0	.0263	.5907	17.52.9	N	2 12 „
23	18.670	19.69	84.1	13.62	84.0	.0208	.5907	17.53.6	N	3 12 „
Aug. 25th-Noon.	19.561	19.52	83.8	13.51	83.6	.0181	.5895	17.53.5	N	4 12 „
1	19.561	19.38	83.0	13.33	83.6	.0157	.5875	17.52.9	H	5 12 „
2	19.287	19.13	82.1	13.25	83.0	.0116	.5866	17.53.0	H	6 12 „
3	18.532	19.06	81.9	13.36	82.8	.0105	.5878	17.53.7	H	7 12 „
4	18.395	19.03	81.8	13.54	82.5	.0107	.5898	17.54.5	H	8 12 „
5	18.532	19.04	81.6	13.64	82.0	.0101	.5909	17.55.0	L	9 12 „
6	18.670	19.04	81.4	13.78	82.0	.0101	.5924	17.55.6	L	10 12 „
7	19.013	19.00	81.1	13.91	81.7	.0095	.5939	17.56.2	L	11 12 „
8	19.013	19.05	81.0	14.02	81.6	.0103	.5951	17.56.7	L	Midnight.
9	19.081	19.01	80.9	14.06	81.4	.0096	.5955	17.56.9	N	1 12 a. m.
10	19.150	19.05	81.0	14.16	81.2	.0103	.5966	17.57.2	N	2 12 „
11	19.218	19.03	80.9	14.24	81.2	.0099	.5975	17.57.6	N	3 12 „
12	19.013	19.02	80.8	14.29	81.2	.0099	.5980	17.57.8	N	4 12 „
13	19.287	19.02	80.9	14.42	81.3	.0099	.5995	17.58.4	H	5 12 „
14	20.385	19.09	80.9	14.64	81.3	.0109	.6019	17.59.2	H	6 12 „
15	21.688	19.14	81.0	14.70	81.5	.0118	.6026	17.59.3	H	7 12 „
16	21.758	19.35	81.3	14.49	81.6	.0153	.6002	17.57.9	H	8 12 „
17	21.345	19.67	82.1	14.11	81.9	.0206	.5961	17.55.6	L	9 12 „
18	19.973	19.91	82.6	13.79	82.0	.0244	.5925	17.53.9	L	10 12 „
19	18.670	20.09	83.5	13.56	82.7	.0273	.5900	17.52.5	L	11 12 „
20	17.366	20.13	84.2	13.34	83.3	.0280	.5876	17.51.4	L	Noon.
21	16.749	20.16	85.0	13.36	84.1	.0286	.5878	17.51.3	C	1 12 p. m.
22	16.886	19.92	85.0	13.34	84.6	.0247	.5876	17.51.7	C	2 12 „
23	17.778	19.68	84.9	13.40	84.7	.0206	.5883	17.52.6	C	3 12 „
Aug. 26th-Noon.	18.532	19.45	84.1	13.41	84.3	.0169	.5884	17.53.1	C	4 12 „
1	18.670	19.44	83.9	13.32	84.1	.0167	.5874	17.52.7	H	5 12 „
2	18.395	19.37	83.1	13.29	83.7	.0157	.5870	17.52.7	H	6 12 „
3	18.601	19.17	82.4	13.35	83.1	.0124	.5877	17.53.5	H	7 12 „
4	18.532	19.08	82.2	13.56	82.9	.0107	.5902	17.54.6	H	8 12 „
5	18.601	19.03	82.1	13.69	82.3	.0100	.5915	17.55.3	L	9 12 „
6	18.875	19.02	81.9	13.82	82.1	.0098	.5929	17.55.8	L	10 12 „
7	19.081	19.05	81.7	13.98	81.9	.0103	.5946	17.56.5	L	11 12 „
8	19.081	18.95	81.1	14.18	81.3	.0087	.5968	17.57.4	L	Midnight.
9	19.150	19.10	81.0	14.24	81.4	.0112	.5975	17.57.5	C	1 12 a. m.
10	19.356	19.06	81.0	14.37	81.5	.0105	.5989	17.58.0	C	2 12 „
11	19.561	19.25	81.0	14.45	81.4	.0126	.5998	17.58.1	C	3 12 „
12	19.630	19.12	81.0	14.54	81.3	.0116	.6008	17.58.6	C	4 12 „
13	20.110	19.10	81.0	14.64	81.4	.0112	.6019	17.59.2	H	5 12 „
14	21.208	19.13	81.0	14.84	81.3	.0116	.6041	17.59.9	H	6 12 „
15	22.101	19.07	81.0	14.85	81.1	.0107	.6042	18.00.1	H	7 12 „
16	21.826	19.13	80.3	14.70	80.6	.0116	.6026	17.59.3	H	8 12 „
17	19.493	19.68	81.0	14.56	80.5	.0206	.6010	17.57.6	L	9 12 „
18	17.846	19.94	81.9	14.55	81.0	.0249	.6009	17.56.9	L	10 12 „
19	16.131	20.26	83.0	14.41	82.0	.0302	.5993	17.55.7	L	11 12 „
20	16.131	20.32	83.8	14.37	83.0	.0312	.5989	17.55.4	C	Noon.
21	16.063	20.15	84.1	14.33	83.5	.0284	.5984	17.55.7	C	1 12 p. m.
22	16.749	19.89	84.5	14.22	84.0	.0240	.5973	17.55.7	C	2 12 „
23	16.052	19.62	84.5	14.10	84.0	.0198	.5960	17.55.7	C	3 12 „

On the 24th, at about 19h., Dip as obtained by Observation was 19°03'8.

DAILY OBSERVATIONS FROM 27TH TO 29TH AUGUST 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Aug. 27th–Noon.	19°08′	19.40	84°0	14.03	83°8	8.0161	2.5952	17°55′9	C	4 12 p. m.
1	19.013	19.24	83.6	13.83	83.8	.0124	.5930	17.55.6	H	5 12 ,,
2	18.738	19.19	83.0	13.78	83.2	.0126	.5924	17.55.2	H	6 12 ,,
3	18.807	19.03	82.5	13.89	83.0	.0099	.5936	17.56.1	H	7 12 ,,
4	18.738	18.96	82.1	13.98	83.0	.0089	.5946	17.56.6	H	8 12 ,,
5	18.738	19.02	82.0	14.12	82.3	.0099	.5962	17.57.0	L	9 12 ,,
6	18.944	19.05	81.8	14.21	82.2	.0103	.5972	17.57.4	L	10 12 ,,
7	19.013	19.09	81.7	14.31	82.0	.0109	.5983	17.57.8	L	11 12 ,,
8	19.081	19.03	81.4	14.43	81.8	.0099	.5996	17.58.4	L	Midnight.
9	19.287	19.00	81.0	14.49	81.5	.0095	.6002	17.58.6	C	1 12 a. m.
10	19.356	19.05	80.9	14.62	81.3	.0103	.6017	17.59.3	C	2 12 ,,
11	19.218	19.07	81.0	14.75	81.4	.0107	.6031	17.59.7	C	3 12 ,,
12	19.150	19.13	81.0	14.84	81.3	.0116	.6041	17.59.9	C	4 12 ,,
13	19.493	19.13	81.0	14.93	81.5	.0116	.6051	18.00.3	H	5 12 ,,
14	20.728	19.16	81.0	15.05	81.5	.0122	.6064	18.00.7	H	6 12 ,,
15	21.963	19.24	81.0	15.05	81.5	.0124	.6064	18.00.7	H	7 12 ,,
16	21.551	19.42	81.2	14.89	81.3	.0165	.6046	17.59.5	H	8 12 ,,
17	19.973	19.84	81.6	14.72	81.3	.0232	.6028	17.58.0	L	9 12 ,,
18	18.464	20.08	82.0	14.77	81.5	.0271	.6033	17.57.7	L	10 12 ,,
19	16.817	20.21	82.5	14.81	81.9	.0293	.6038	17.57.6	L	11 12 ,,
20	16.406	20.35	83.0	14.79	82.3	.0316	.6035	17.57.1	L	Noon.
21	17.298	20.33	83.7	14.79	83.0	.0312	.6035	17.57.3	C	1 12 p. m.
22	17.778	20.16	84.2	14.63	83.9	.0286	.6018	17.56.8	C	2 12 ,,
23	18.738	19.78	84.8	14.49	84.3	.0222	.6002	17.57.0	C	3 12 ,,
Aug. 28th–Noon.	19.356	19.35	84.0	14.28	84.0	.0153	.5978	17.57.0	C	4 12 ,,
1	19.493	19.13	83.6	14.12	84.0	.0116	.5962	17.56.7	H	5 12 ,,
2	19.013	19.02	83.0	14.02	83.4	.0099	.5953	17.56.8	H	6 12 ,,
3	18.670	18.84	82.5	14.10	83.2	.0069	.5960	17.57.4	H	7 12 ,,
4	18.875	18.73	82.0	14.19	83.0	.0050	.5969	17.57.9	H	8 12 ,,
5	18.670	18.77	81.8	14.32	82.4	.0058	.5984	17.58.4	L	9 12 ,,
6	18.875	18.75	81.4	14.48	82.1	.0048	.6001	17.59.2	L	10 12 ,,
7	19.081	18.83	81.4	14.62	82.0	.0067	.6017	17.59.7	L	11 12 ,,
8	19.218	18.77	81.2	14.72	81.9	.0058	.6028	18.00.2	L	Midnight.
9	19.287	18.80	81.0	14.76	81.8	.0063	.6032	18.00.3	C	1 12 a. m.
10	19.287	18.84	80.9	14.86	81.4	.0069	.6043	18.00.7	C	2 12 ,,
11	19.218	18.96	80.9	14.97	81.4	.0089	.6055	18.00.9	C	3 12 ,,
12	19.218	18.98	80.9	15.09	81.3	.0091	.6068	18.01.3	C	4 12 ,,
13	19.424	18.97	80.9	15.17	81.3	.0091	.6077	18.01.7	H	5 12 ,,
14	20.385	19.02	80.9	15.37	81.4	.0099	.6099	18.02.4	H	6 12 ,,
15	21.002	19.10	80.8	15.39	81.3	.0112	.6101	18.02.4	H	7 12 ,,
16	20.590	19.13	81.1	15.24	81.3	.0116	.6085	18.01.6	H	8 12 ,,
17	19.493	19.41	81.4	15.09	81.2	.0162	.6068	18.00.4	L	9 12 ,,
18	17.846	19.66	82.6	14.99	81.9	.0204	.6057	17.59.6	L	10 12 ,,
19	16.680	19.85	83.4	14.87	82.3	.0234	.6044	17.58.6	L	11 12 ,,
20	15.994	19.86	83.9	14.73	83.0	.0236	.6029	17.57.9	L	Noon.
21	15.788	19.70	84.0	14.65	83.7	.0210	.6020	17.58.0	C	1 12 p. m.
22	16.955	19.56	84.2	14.60	84.0	.0187	.6016	17.58.0	C	2 12 ,,
23	17.846	19.31	84.0	14.50	84.0	.0146	.6004	17.58.0	C	3 12 ,,
Aug. 29th–Noon.	18.738	19.18	83.9	14.42	84.0	.0124	.5995	17.58.1	C	4 12 ,,
1	18.738	18.95	82.8	14.31	83.9	.0087	.5983	17.58.0	H	5 12 ,,
2	18.807	18.88	82.0	14.32	83.2	.0075	.5984	17.58.2	H	6 12 ,,
3	18.670	18.79	82.0	14.57	83.0	.0060	.6011	17.59.5	H	7 12 ,,
4	18.601	18.82	82.0	14.58	82.8	.0067	.6012	17.59.4	H	8 12 ,,
5	18.738	18.86	81.9	14.65	82.2	.0073	.6020	17.59.8	L	9 12 ,,
6	18.807	18.89	81.7	14.78	82.0	.0077	.6034	18.00.2	L	10 12 ,,
7	18.738	18.94	81.5	14.94	82.0	.0085	.6052	18.00.7	L	11 12 ,,
8	18.807	19.09	81.3	15.07	81.8	.0109	.6066	18.01.0	L	Midnight.
9	18.807	19.02	81.2	15.13	81.9	.0099	.6073	18.01.4	C	1 12 a. m.
10	19.150	18.96	81.0	15.23	81.7	.0089	.6084	18.01.9	C	2 12 ,,
11	19.150	19.20	81.0	15.28	81.7	.0118	.6089	18.01.7	C	3 12 ,,

On the 27th, at about 19h., Dip as obtained by Observation was 19°04′4.

DAILY OBSERVATIONS FROM 29TH AUGUST TO 1ST SEPTEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Aug. 29th—12	19·493	19.14	81°0	15.37	81°6	8.0118	2.6099	18°02'1	C	4 12 a. m.
13	19.904	19.12	80.9	15.43	81.6	.0116	.6106	18.02.4	H	5 12 „
14	20.659	19.03	80.9	15.54	81.4	.0099	.6118	18.03.2	H	6 12 „
15	21.002	19.06	80.9	15.54	81.4	.0105	.6118	18.03.1	H	7 12 „
16	20.728	19.31	81.2	15.45	81.6	.0146	.6108	18.02.5	H	8 12 „
17	20.179	19.64	82.1	15.07	81.8	.0200	.6066	17.59.8	L	9 12 „
18	18.464	19.97	82.9	15.04	82.0	.0255	.6063	17.58.9	L	10 12 „
19	17.298	19.95	83.8	14.98	82.7	.0251	.6056	17.58.8	L	11 12 „
20	16.955	19.83	84.2	14·86	83.2	.0230	.6043	17.58.6	L	Noon.
21	16.546	19.75	84.1	14.86	83.6	.0218	.6043	17.58.7	C	1 12 p. m.
22	17.023	19.51	84.0	14.90	84.0	.0178	.6048	17.59.5	C	2 12 „
23	18.258	19.36	84.3	14.87	84.0	.0155	.6044	17.59.5	C	3 12 „
Aug. 31st—Noon.	19.218	19.17	84.0	15.14	84.7	.0124	.6074	18.01.1	H	4 12 „
1	19.287	18.94	83.4	15.01	84.3	.0085	.6060	18.01.0	H	5 12 „
2	18.532	18.84	82.6	14.83	83.7	.0069	.6040	18.00.6	C	6 12 „
3	18.807	18.84	82.4	14.95	83.4	.0069	.6053	18.01.1	C	7 12 „
4	19.150	18.86	82.0	14.99	83.0	.0073	.6057	18.01.3	C	8 12 „
5	19.287	18.86	82.0	15.10	82.8	.0073	.6070	18.01.7	H	9 12 „
6	19.356	18.81	81.8	15.24	82.6	.0064	.6085	18.02.4	H	10 12 „
7	19.287	18.89	81.6	15.37	82.4	.0077	.6099	18.02.7	H	11 12 „
8	19.424	18.95	81.5	15.47	82.2	.0087	.6110	18.03.0	H	Midnight.
9	19.424	18.80	81.0	15.51	81.8	.0063	.6115	18.03.6	L	1 12 a. m.
10	19.836	18.78	80.9	15.62	81.6	.0058	.6127	18.04.1	L	2 12 „
11	19.904	18.91	80.7	15.76	81.4	.0080	.6142	18.04.4	L	3 12 „
12	19.904	18.86	80.6	15.89	81.2	.0073	.6056	18.05.1	L	4 12 „
13	19.630	18.88	80.5	15.98	81.2	.0075	.6166	18.05.3	C	5 12 „
14	20.728	18.90	80.5	16.11	81.2	.0079	.6181	18.05.9	C	6 12 „
15	21.276	18.92	80.7	16.16	81.3	.0083	.6187	18.06.2	C	7 12 „
16	20.728	19.05	81.0	15.99	81.5	.0103	.6167	18.05.1	C	8 12 „
17	19.493	19.71	82.0	15.98	82.0	.0211	.6166	18.03.8	H	9 12 „
18	19.356	19.97	82.7	15.92	82.5	.0255	.6160	18.02.7	H	10 12 „
19	18.327	19.84	83.1	15.74	83.0	.0232	.6140	18.02.4	H	11 12 „
20	17.709	20.08	84.0	15.68	83.9	.0271	.6133	18.01.6	H	Noon.
21	17.641	19.80	84.1	15.57	84.0	.0226	.6121	18.01.6	L	1 12 p. m.
22	18.464	19.60	83.5	15.61	83.7	.0194	.6126	18.02.3	L	2 12 „
23	19.561	19.80	83.1	15.66	83.4	.0226	.6131	18.02.0	L	3 12 „
Sept. 1st—Noon.	19.904	19.19	83.0	15.58	83.2	.0126	.6122	18.02.9	L	4 12 „
1	19.356	19.04	82.2	15.34	83.0	.0101	.6096	18.02.3	C	5 12 „
2	18.601	19.12	81.8	15.37	82.6	.0116	.6099	18.02.1	C	6 12 „
3	18.670	18.94	81.0	15.51	82.1	.0085	.6115	18.03.2	C	7 12 „
4	18.327	18.90	80.9	15.74	82.0	.0099	.6140	18.04.4	C	8 12 „
5	19.013	18.76	80.1	15.84	81.4	.0056	.6151	18.05.0	H	9 12 „
6	19.218	19.02	80.1	15.93	81.0	.0099	.6161	18.04.8	H	10 12 „
7	19.630	18.74	80.0	16.03	81.0	.0052	.6192	18.05.8	H	11 12 „
8	19.424	18.72	79.5	16.13	80.4	.0050	.6187	18.06.5	H	Midnight.
9	19.561	18.75	79.0	16.22	80.0	.0054	.6193	18.06.7	L	1 12 a. m.
10	19.699	18.90	78.7	16.33	79.7	.0079	.6205	18.06.9	L	2 12 „
11	19.904	18.77	78.5	16.44	79.4	.0058	.6217	18.07.6	L	3 12 „
12	19.767	18.98	78.4	16.50	79.3	.0091	.6229	18.07.6	L	4 12 „
13	19.767	19.09	78.8	16.63	79.4	.0109	.6238	18.07.8	C	5 12 „
14	20.522	19.02	79.0	16.74	79.6	.0099	.6250	18.08.4	C	6 12 „
15	21.551	18.91	79.1	16.79	79.7	.0080	.6255	18.08.9	C	7 12 „
16	21.895	18.99	79.8	16.76	80.0	.0093	.6252	18.08.5	C	8 12 „
17	20.453	19.35	79.9	16.51	80.3	.0157	.6225	18.06.7	H	9 12 „
18	18.464	19.65	80.9	16.42	80.8	.0202	.6215	18.05.7	H	10 12 „
19	17.503	19.79	81.9	16.45	81.5	.0224	.6218	18.05.5	H	11 12 „
20	17.229	19.96	83.0	16.47	82.5	.0253	.6220	18.05.2	H	Noon.
21	17.435	19.85	83.3	16.45	82.4	.0234	.6218	18.05.4	L	1 12 p. m.
22	18.395	19.57	83.3	16.29	83.0	.0189	.6189	18.04.7	L	2 12 „
23	19.218	19.37	83.0	16.14	82.7	.0157	.6184	18.04.9	L	3 12 „

On the 31st, at about 19h., Dip as obtained by Observation was 19°01'9.

DAILY OBSERVATIONS FROM 2ND TO 4TH SEPTEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Sept. 2nd-Noon.	19·904	19.20	82°6	16.05	82°4	8.0118	2.6174	18°05′0	L	4 12 p. m.
1	19.493	19.10	82.1	15.92	82.4	.0112	.6160	18.04.7	C	5 12 ,,
2	18.532	19.12	81.7	15.95	82.3	.0116	.6163	18.04.6	C	6 12 ,,
3	18.670	18.90	81.2	16.00	82.0	.0083	.6169	18.05.4	C	7 12 ,,
4	18.601	18.94	81.2	16.06	81.9	.0085	.6175	18.05.5	C	8 12 ,,
5	18.738	18.90	81.1	16.13	81.8	.0079	.6183	18.06.0	H	9 12 ,,
6	18.875	18.85	80.9	16.23	81.6	.0071	.6193	18.06.5	H	10 12 ,,
7	19.013	18.90	80.9	16.27	81.5	.0079	.6198	18.06.4	H	11 12 ,,
8	19.150	18.89	80.9	16.35	81.5	.0077	.6207	18.07.0	H	Midnight.
9	19.356	18.83	80.4	16.38	81.0	.0067	.6210	18.07.2	L	1 12 a. m.
10	19.424	18.90	80.0	16.37	80.8	.0079	.6209	18.07.0	L	2 12 ,,
11	19.424	18.89	79.9	16.47	80.6	.0079	.6220	18.07.5	L	3 12 ,,
12	19.490	18.96	80.0	16.52	80.6	.0089	.6226	18.07.5	L	4 12 ,,
13	19.904	18.93	79.9	16.59	80.6	.0083	.6233	18.08.0	C	5 12 ,,
14	20.459	19.01	80.0	16.72	80.5	.0096	.6248	18.08.3	C	6 12 ,,
15	21.002	19.04	80.0	16.69	80.7	.0101	.6244	13.08.1	C	7 12 ,,
16	19.973	19.35	80.3	16.48	80.7	.0153	.6221	18.06.5	C	8 12 ,,
17	18.052	19.64	80.9	16.25	81.1	.0200	.6196	18.04.9	H	9 12 ,,
18	15.994	19.91	80.9	16.21	81.3	.0251	.6192	18.04.0	H	10 12 ,,
19	15.377	20.19	81.9	16.29	81.8	.0290	.6200	18.03.9	H	11 12 ,,
20	15.171	20.26	83.0	16.40	82.6	.0302	.6213	18.05.4	H	Noon.
21	15.994	20.06	83.6	16.39	82.9	.0269	.6211	18.04.6	L	1 12 p. m.
22	17.435	19.80	83.3	16.35	82.9	.0227	.6208	18.05.0	L	2 12 ,,
23	19.218	19.54	83.0	16.32	82.6	.0183	.6204	18.05.5	L	3 12 ,,
Sept. 3rd-Noon.	20.316	19.22	82.0	16.21	81.9	.0122	.6192	18.05.7	L	4 12 ,,
1	19.973	19.21	81.3	16.16	81.9	.0119	.6186	18.05.5	C	5 12 ,,
2	18.738	19.05	81.0	16.13	81.8	.0103	.6183	18.05.7	C	6 12 ,,
3	18.532	18.76	81.0	16.21	81.4	.0056	.6192	18.06.5	C	7 12 ,,
4	18.464	18.78	80.9	16.29	81.4	.0058	.6200	18.06.9	C	8 12 ,,
5	18.738	18.78	80.9	16.34	81.4	.0058	.6206	18.07.1	H	9 12 ,,
6	19.013	18.75	80.2	16.42	81.0	.0054	.6215	18.07.6	H	10 12 ,,
7	18.875	19.26	79.8	16.43	80.5	.0128	.6216	18.06.6	H	11 12 ,,
8	19.081	19.00	80.0	16.58	80.5	.0095	.6232	18.07.6	H	Midnight.
9	19.356	19.04	80.0	16.61	80.4	.0101	.6236	18.07.8	L	1 12 a. m.
10	19.836	19.26	80.0	16.66	80.5	.0128	.6241	18.07.6	L	2 12 ,,
11	19.973	18.86	80.0	16.72	80.6	.0073	.6248	18.08.7	L	3 12 ,,
12	19.699	18.88	80.0	16.75	80.6	.0075	.6251	18.08.7	L	4 12 ,,
13	20.796	18.40	79.3	16.85	80.5	7.9997	.6262	18.10.0	C	5 12 ,,
14	22.032	17.66	79.9	17.02	80.5	.9827	.6281	18.13.0	C	6 12 ,,
15	22.305	17.16	80.0	16.96	80.5	.9775	.6274	18 13.4	C	7 12 ,,
16	22.032	17.40	80.7	16.82	80.7	.9834	.6259	18.12.2	C	8 12 ,,
17	20.865	17.21	81.8	16.72	81.4	.9800	.6248	18.12.2	H	9 12 ,,
18	18.189	17.43	82.2	16.47	81.9	.9838	.6220	18.10.6	H	10 12 ,,
19	16.817	17.09	83.0	16.40	82.5	.9755	.6213	18.11.3	H	11 12 ,,
20	16.200	16.67	83.4	16.26	83.0	.9691	.6197	18.11.6	H	Noon.
21	16.543	17.32	83.9	16.29	83.1	.9814	.6200	18.10.2	L	1 12 p. m.
22	18.189	18.01	83.4	16.31	83.0	.9933	.6203	18.08.7	L	2 12 ,,
23	19.493	17.82	82.8	16.43	82.2	.9896	.6216	18.09.6	L	3 12 ,,
Sept. 4th-Noon.	19.630	18.05	82.9	16.37	82.4	.9940	.6209	18.08.8	L	4 12 ,,
1	19.287	18.08	82.7	16.26	82.7	.9944	.6197	18.08.4	C	5 12 ,,
2	19.493	17.83	82.1	16.28	82.5	.9896	.6199	18.08.9	C	6 12 ,,
3	19.013	18.06	81.9	16.25	82.3	.9940	.6196	18.08.3	C	7 12 ,,
4	19.218	17.90	81.7	16.33	82.3	.9916	.6205	18.08.9	C	8 12 ,,
5	19.287	17.86	81.5	16.36	82.0	.9914	.6208	18.09.2	H	9 12 ,,
6	19.630	17.91	81.2	16.46	81.9	.9923	.6219	18.09.4	H	10 12 ,,
7	20.042	17.85	81.1	16.65	81.6	.9909	.6240	18.10.5	H	11 12 ,,
8	20.179	17.89	80.9	16.54	81.4	.9911	.6228	18.10.0	H	Midnight.
9	20.247	17.92	80.8	16.48	81.2	.9912	.6221	18.09.7	L	1 12 a. m.
10	20.522	18.01	80.7	16.41	81.0	.9933	.6214	18.09.1	L	2 12 ,,
11	20.522	18.00	80.7	16.38	81.0	.9932	.6210	18.09.0	L	3 12 ,,

On the 3rd, at about 19h., Dip as obtained by Observation was 19°01′2.

DAILY OBSERVATIONS FROM 4TH TO 7TH SEPTEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Sept. 4th—12	20′522	17.99	80°0	16.38	80°5	7.9910	2.6210	18°09′3	L	4 12 a. m.
13	20.796	18.12	80.0	16.41	80.6	.9928	.6214	18.09.1	C	5 12 „
14	20.933	18.42	80.0	16.42	80.7	8.0001	.6215	18.08.3	C	6 12 „
15	21.963	18.50	80.2	16.44	80.7	.0013	.6217	18.08.3	C	7 12 „
16	21.963	18.53	80.6	16.31	80.9	.0017	.6203	18.07.5	C	8 12 „
17	18.532	18.82	80.9	16.03	81.0	.0067	.6172	18.05.6	H	9 12 „
18	17.023	19.02	81.8	16.05	81.5	.0099	.6174	18.05.3	H	10 12 „
19	15.926	19.16	82.9	16.07	82.3	.0122	.6176	18.05.1	H	11 12 „
20	15.788	19.14	82.9	16.15	82.4	.0118	.6185	18.05.5	H	Noon.
21	16.543	19.12	83.3	16.24	83.0	.0116	.6195	18.05.9	L	1 12 p. m.
22	18.052	18.91	83.3	16.43	83.1	.0080	.6216	18.07.3	L	2 12 „
23	20.110	18.67	83.1	16.44	83.0	.0042	.6217	18.07.8	L	3 12 „
Sept. 6th-Noon.	19.699	18.77	83.0	16.42	83.4	.0058	.6215	18.07.5	C	4 12 „
1	19.699	18.67	82.5	16.31	82.9	.0042	.6203	18.07.3	C	5 12 „
2	19.287	18.52	82.0	16.28	82.5	.0017	.6199	18.07.3	C	6 12 „
3	19.081	18.42	81.6	16.22	82.2	.0001	.6193	18.07.3	C	7 12 „
4	19.356	18.48	81.4	16.16	82.0	.0019	.6186	18.06.8	C	8 12 „
5	19.424	18.45	81.1	16.16	81.9	.0005	.6186	18.07.0	H	9 12 „
6	19.287	18.74	80.8	16.18	81.5	.0052	.6188	18.06.5	H	10 12 „
7	19.767	18.31	80.0	16.16	81.0	7.9982	.6186	18.07.4	H	11 12 „
8	19.767	18.55	80.0	16.17	80.9	8.0021	.6187	18.06.9	H	Midnight.
9	19.561	18.60	80.0	16.14	80.8	.0030	.6184	18.06.6	L	1 12 a. m.
10	19.561	18.65	80.2	16.18	81.0	.0038	.6188	18.06.7	L	2 12 „
11	19.630	18.68	80.4	16.15	81.0	.0042	.6185	18.06.6	L	3 12 „
12	19.699	18.64	80.5	16.17	81.0	.0036	.6187	18.06.5	L	4 12 „
13	19.904	18.71	80.4	16.23	81.0	.0047	.6193	18.06.7	C	5 12 „
14	20.796	18.75	80.3	16.23	80.9	.0054	.6193	18.06.7	C	6 12 „
15	22.237	18.69	80.0	16.23	80.7	.0044	.6193	18.06.9	C	7 12 „
16	22.101	19.00	80.2	16.17	80.8	.0095	.6187	18.05.9	C	8 12 „
17	20.933	19.51	80.8	16.15	80.9	.0178	.6185	18.04.8	H	9 12 „
18	18.944	19.97	82.0	16.05	81.6	.0255	.6174	18.03.2	H	10 12 „
19	16.131	19.93	83.0	15.98	82.6	.0247	.6166	18.03.0	H	11 12 „
20	13.867	20.05	83.5	16.09	83.0	.0267	.6178	18.03.3	H	Noon.
21	14.347	19.81	83.0	16.12	82.4	.0227	.6182	18.03.9	L	1 12 p. m.
22	15.994	19.54	83.4	16.26	82.9	.0183	.6197	18.05.3	L	2 12 „
23	17.984	19.50	84.0	16.29	83.1	.0177	.6200	18.05.4	L	3 12 „
Sept. 7th-Noon.	19.424	19.04	83.5	16.31	83.0	.0101	.6203	18.06.5	L	4 12 „
1	19.561	18.90	83.0	16.26	83.2	.0079	.6197	18.06.6	C	5 12 „
2	19.081	18.83	82.2	16.20	82.9	.0067	.6192	18.06.4	C	6 12 „
3	20.385	18.48	82.0	16.24	82.7	.0009	.6195	18.07.4	C	7 12 „
4	20.522	17.73	82.0	16.23	82.5	7.9899	.6194	18.09.0	C	8 12 „
5	19.836	17.90	82.0	16.20	82.5	.9916	.6191	18.08.3	H	9 12 „
6	19.836	18.12	81.1	16.24	82.0	.9952	.6195	18.08.1	H	10 12 „
7	19.904	18.31	80.6	16.23	81.6	.9982	.6194	18.07.7	H	11 12 „
8	20.110	18.52	80.6	16.26	81.4	8.0017	.6197	18.07.3	H	Midnight.
9	19.973	18.53	80.5	16.36	81.3	.0017	.6208	18.07.7	L	1 12 a. m.
10	20.247	18.51	80.3	16.35	81.1	7.9994	.6207	18.08.1	L	2 12 „
11	19.287	18.81	80.2	16.37	81.0	8.0064	.6209	18.07.2	L	3 12 „
12	19.013	18.87	79.9	16.40	80.6	.0075	.6213	18.07.2	L	4 12 „
13	20.522	18.54	79.9	16.42	80.5	.0019	.6215	18.08.0	C	5 12 „
14	21.415	18.56	79.9	16.52	80.6	.0023	.6226	18.08.4	C	6 12 „
15	22.649	18.37	80.0	16.67	80.6	7.9983	.6242	18.09.6	C	7 12 „
16	22.581	18.43	80.2	16.53	80.6	8.0001	.6227	18.08.8	C	8 12 „
17	21.071	18.88	80.9	16.45	80.9	.0075	.6218	18.07.4	H	9 12 „
18	18.601	19.31	81.6	16.40	81.5	.0146	.6213	18.06.2	H	10 12 „
19	16.817	19.30	81.6	16.40	81.5	.0145	.6213	18.06.2	H	11 12 „
20	15.445	19.34	82.0	16.44	82.0	.0151	.6217	18.06.4	H	Noon.
21	15.651	19.20	81.6	16.42	81.4	.0118	.6215	18.06.8	L	1 12 p. m.
22	16.749	19.05	81.6	16.47	81.6	.0103	.6220	18.07.2	L	2 12 „
23	18.258	18.84	81.5	16.50	81.8	.0069	.6224	18.07.7	L	3 12 „

On the 6th, the Observed Dip was 19°01′9.

On the 7th, at about 19h., Dip as obtained by Observation was 19°00′0.

DAILY OBSERVATIONS FROM 8TH TO 10TH SEPTEMBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
SEPT. 8TH-Noon.	19'424	18.68	81°0	16.53	81°5	8.0042	2.6227	18°08'3	L	4 12 p. m.
1	19.356	18.71	81.0	16.50	81.5	.0047	.6224	18.07.9	C	5 12 „
2	18.807	18.78	81.1	16.50	81.5	.0058	.6224	18.07.8	C	6 12 „
3	18.738	18.71	81.0	16.53	81.5	.0047	.6227	18.08.1	C	7 12 „
4	18.738	18.66	80.9	16.54	81.4	.0040	.6228	18.08.3	C	8 12 „
5	19.013	18.53	80.6	16.62	81.4	.0017	.6237	18.08.9	H	9 12 „
6	19.630	18.45	79.8	16.62	80.7	.0005	.6237	18.09.1	H	10 12 „
7	19.630	18.54	79.6	16.62	80.5	.0019	.6237	18.08.9	H	11 12 „
8	19.287	18.60	79.6	16.67	80.5	.0030	.6242	18.08.9	H	Midnight.
9	19.630	18.52	79.6	16.73	80.4	.0017	.6249	18.09.3	L	1 12 a. m.
10	19.561	18.58	79.7	16.79	80.4	.0025	.6255	18.09.5	L	2 12 „
11	19.493	18.79	79.7	16.83	80.4	.0060	.6260	18.09.2	L	3 12 „
12	19.493	18.72	79.7	16.91	80.4	.0050	.6269	18.09.6	L	4 12 „
13	19.767	18.65	79.7	16.81	80.4	.0038	.6258	18.09.5	C	5 12 „
14	20.590	18.73	79.8	16.81	80.4	.0050	.6258	18.09.3	C	6 12 „
15	21.826	18.67	79.9	16.83	80.3	.0042	.6260	18.09.5	C	7 12 „
16	21.826	18.76	79.6	16.81	80.1	.0056	.6258	18.09.2	C	8 12 „
17	20.659	19.21	80.6	16.78	80.8	.0119	.6254	18.08.2	H	9 12 „
18	19.561	19.33	80.8	16.73	80.9	.0149	.6249	18.07.6	H	10 12 „
19	17.984	19.47	80.5	16.73	80.9	.0173	.6249	18.07.4	H	11 12 „
20	16.406	19.66	81.2	16.73	81.0	.0204	.6249	18.07.0	H	Noon.
21	16.406	19.45	81.4	16.75	81.0	.0169	.6251	18.07.5	L	1 12 p. m.
22	16.680	19.37	81.9	16.74	81.9	.0157	.6250	18.07.6	L	2 12 „
23	17.160	19.08	81.5	16.73	81.5	.0107	.6249	18.08.2	L	3 12 „
SEPT. 9TH-Noon.	18.121	18.89	81.3	16.69	81.4	.0077	.6244	18.08.4	L	4 12 „
1	18.601	18.78	80.9	16.66	81.4	.0058	.6241	18.08.5	C	5 12 „
2	19.150	18.63	80.2	16.64	81.3	.0034	.6239	18.08.8	C	6 12 „
3	18.944	18.65	80.2	16.63	81.0	.0038	.6238	18.08.7	C	7 12 „
4	19.150	18.64	80.2	16.60	81.0	.0036	.6238	18.08.7	C	8 12 „
5	19.150	18.70	80.2	16.66	81.0	.0046	.6241	18.08.6	H	9 12 „
6	19.287	18.78	80.0	16.68	81.0	.0058	.6243	18.08.6	H	10 12 „
7	19.287	18.75	80.0	16.71	80.9	.0050	.6247	18.08.9	H	11 12 „
8	19.564	18.67	79.9	16.71	80.3	.0042	.6247	18.09.1	H	Midnight.
9	19.424	18.82	79.3	16.95	80.0	.0067	.6273	18.09.6	L	1 12 a. m.
10	19.287	18.76	79.4	16.95	80.0	.0056	.6273	18.09.7	L	2 12 „
11	19.424	18.68	79.2	16.80	79.9	.0042	.6257	18.09.5	L	3 12 „
12	19.973	18.57	78.7	16.82	79.5	.0025	.6259	18.09.6	L	4 12 „
13	19.767	18.66	78.9	16.84	79.6	.0040	.6261	18.09.5	C	5 12 „
14	20.728	18.66	79.1	17.00	79.9	.0040	.6279	18.10.2	C	6 12 „
15	21.758	18.60	79.0	16.99	79.8	.0030	.6277	18.10.3	C	7 12 „
16	21.963	18.89	79.5	16.94	79.9	.0077	.6272	18.09.4	C	8 12 „
17	20.865	19.21	80.4	16.91	80.3	.0119	.6269	18.08.7	H	9 12 „
18	19.930	19.38	80.7	16.86	80.5	.0157	.6263	18.08.0	H	10 12 „
19	17.298	19.44	80.4	16.85	80.4	.0167	.6262	18.07.8	H	11 12 „
20	15.308	19.48	80.5	16.83	80.4	.0173	.6260	18.07.8	H	Noon.
21	15.445	19.00	79.4	16.89	79.6	.0095	.6266	18.08.9	L	1 12 p. m.
22	16.680	19.00	80.0	16.91	79.8	.0095	.6269	18.09.0	L	2 12 „
23	17.846	18.77	80.0	16.90	80.0	.0058	.6268	18.09.5	L	3 12 „
SEPT. 10TH-Noon.	18.875	18.63	80.2	16.94	80.0	.0034	.6272	18.10.0	L	4 12 „
1	19.630	18.47	80.1	17.17	80.3	.0009	.6297	18.11.4	C	5 12 „
2	21.071	18.72	80.0	17.14	80.5	.0050	.6294	18.10.6	C	6 12 „
3	19.836	18.32	79.1	17.14	80.0	7.9985	.6294	18.11.4	C	7 12 „
4	19.013	18.54	79.0	17.13	79.8	8.0019	.6293	18.11.0	C	8 12 „
5	19.013	18.59	79.2	17.14	79.9	.0027	.6294	18.10.9	H	9 12 „
6	19.630	18.16	79.3	17.18	80.0	7.9958	.6298	18.12.0	H	10 12 „
7	20.179	18.15	79.4	17.20	80.0	.9956	.6309	18.12.4	H	11 12 „
8	20.590	18.09	79.1	17.19	79.8	.9946	.6299	18.12.1	H	Midnight.
9	19.218	18.30	78.8	17.18	79.4	.9981	.6298	18.11.8	L	1 12 a. m.
10	19.424	18.24	79.0	17.20	79.4	.9970	.6301	18.12.0	L	2 12 „
11	19.424	18.28	79.0	17.19	79.5	.9976	.6299	18.11.8	L	3 12 „

DAILY OBSERVATIONS FROM 10TH TO 13TH SEPTEMBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
SEPT. 10TH—12	19°424	18.32	79°1	17.23	79°6	7.9985	2.6304	19°11'8	L	4 12 a. m.
13	19.767	18.37	78.9	17.29	79.5	.9993	.6310	18.12.1	C	5 12 „
14	20.796	18.35	79.0	17.35	79.6	.9991	.6317	18.12.4	C	6 12 „
15	22.305	18.26	79.1	17.36	79.8	.9974	.6318	18.12.7	C	7 12 „
16	22.787	18.61	79.9	17.34	79.9	8.0031	.6316	18.11.8	C	8 12 „
17	21.551	19.04	81.0	17.37	80.6	.0101	.6319	18.11.0	H	9 12 „
18	18.944	19.32	81.8	17.14	81.3	.0149	.6294	18.09.3	H	10 12 „
19	16.955	19.58	82.8	17.07	82.2	.0187	.6286	18.08.5	H	11 12 „
20	16.131	19.55	83.3	17.08	82.8	.0185	.6287	18.08.6	H	Noon.
21	15.583	19.42	83.5	16.94	82.7	.0165	.6272	18.08.2	L	1 12 p. m.
22	16.955	19.23	83.7	16.97	83.0	.0122	.6275	18.09.0	L	2 12 „
23	18.121	19.12	83.3	16.93	83.0	.0116	.6271	18.08.8	L	3 12 „
SEPT. 11TH-Noon.	19.081	19.04	83.2	16.92	83.2	.0101	.6270	18.09.1	L	4 12 „
1	19.561	18.82	82.6	16.86	82.9	.0067	.6263	18.09.2	C	5 12 „
2	19.013	18.75	81.5	16.76	82.3	.0054	.6252	18.09.0	C	6 12 „
3	18.875	18.64	81.2	16.76	82.0	.0036	.6252	18.09.2	C	7 12 „
4	19.287	18.51	80.9	16.79	81.7	.0014	.6255	18.09.8	C	8 12 „
5	19.287	18.75	80.7	16.79	81.4	.0054	.6255	18.09.2	H	9 12 „
6	19.680	18.56	80.5	16.84	81.3	.0023	.6261	18.09.7	H	10 12 „
7	19.493	18.54	80.4	16.85	81.0	.0029	.6262	18.09.6	H	11 12 „
8	19.836	18.75	80.3	16.88	80.9	.0054	.6265	18.09.5	H	Midnight.
9	19.424	18.85	80.1	16.89	80.4	.0071	.6266	18.09.3	L	1 12 a. m.
10	19.493	18.69	80.0	16.91	80.3	.0044	.6269	18.09.8	L	2 12 „
11	19.836	18.55	79.5	16.92	80.0	.0021	.6270	18.10.1	L	3 12 „
12	19.081	18.72	79.7	16.92	80.0	.0050	.6270	18.09.7	L	4 12 „
13	19.973	18.72	79.7	17.94	80.0	.0050	.6272	18.09.7	C	5 12 „
14	20.522	18.59	79.6	17.00	80.0	.0027	.6279	18.10.3	C	6 12 „
15	21.688	18.62	79.8	17.05	80.0	.0034	.6284	18.10.5	C	7 12 „
16	21.895	18.66	79.9	17.00	80.0	.0040	.6279	18.10.2	C	8 12 „
17	20.453	19.02	80.4	16.95	80.1	.0099	.6273	18.09.2	H	9 12 „
18	18.670	19.30	81.5	16.85	80.9	.0145	.6262	18.08.0	H	10 12 „
19	17.709	19.25	82.5	16.86	81.9	.0126	.6263	17.08.4	H	11 12 „
20	16.819	19.32	83.0	16.80	82.5	.0147	.6257	17.08.0	H	Noon.
21	16.886	19.20	83.3	16.78	82.8	.0118	.6254	17.08.2	L	1 12 p. m.
22	17.846	19.24	83.3	16.76	82.8	.0124	.6252	17.08.1	L	2 12 „
23	18.738	19.21	83.5	16.74	83.0	.0119	.6250	17.08.1	L	3 12 „
SEPT. 13TH-Noon.	20.453	19.14	83.0	17.11	83.0	.0118	.6291	18.09.6	L	4 12 „
1	19.973	18.96	82.0	17.03	82.9	.0089	.6282	18.09.6	C	5 12 „
2	18.670	18.86	81.5	16.96	82.1	.0073	.6274	18.09.6	C	6 12 „
3	18.395	18.94	81.0	16.96	82.0	.0085	.6274	18.09.3	C	7 12 „
4	18.532	18.88	80.9	16.96	81.9	.0075	.6274	18.09.5	C	8 12 „
5	18.807	18.87	80.8	16.95	81.5	.0075	.6273	18.09.5	H	9 12 „
6	19.013	18.91	80.6	16.94	81.3	.0080	.6272	18.09.4	H	10 12 „
7	19.150	18.95	80.3	16.94	81.1	.0087	.6272	18.09.2	H	11 12 „
8	19.013	19.06	80.2	16.94	81.0	.0105	.6272	18.09.0	H	Midnight.
9	19.356	19.00	80.0	17.07	80.7	.0095	.6286	18.09.7	L	1 12 a. m.
10	19.287	19.02	80.0	17.00	80.7	.0099	.6279	18.09.4	L	2 12 „
11	19.218	18.95	79.5	16.99	80.3	.0087	.6277	18.09.5	L	3 12 „
12	19.287	18.99	79.2	17.01	80.2	.0093	.6280	18.09.6	L	4 12 „
13	19.973	18.92	79.2	17.01	80.2	.0083	.6280	18.09.8	C	5 12 „
14	20.938	18.99	79.3	17.02	80.1	.0093	.6281	18.09.6	C	6 12 „
15	21.551	18.85	79.6	17.01	80.0	.0071	.6280	18.09.9	C	7 12 „
16	21.276	18.92	80.8	16.98	80.4	.0083	.6276	18.09.6	C	8 12 „
17	20.316	19.64	81.0	16.93	80.9	.0200	.6271	18.07.8	H	9 12 „
18	17.709	19.53	82.0	16.89	81.7	.0181	.6266	18.07.9	H	10 12 „
19	16.817	19.26	82.7	16.89	82.4	.0128	.6266	18.08.5	H	11 12 „
20	17.160	19.79	83.4	16.91	82.9	.0224	.6269	18.07.4	H	Noon.
21	12.269	19.65	83.7	16.95	83.2	.0212	.6273	18.07.8	L	1 12 p. m.
22	17.846	19.51	84.0	16.99	83.7	.0178	.6277	18.08.4	L	2 12 „
23	19.561	19.15	84.0	17.01	83.7	.0120	.6280	18.09.2	L	3 12 „

On the 10th, at about 19h., Dip as obtained by Observation was 19°11'6.
On the 11th, at about 20h. 30m., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 14TH TO 16TH SEPTEMBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
SEPT. 14TH-Noon.	19°561	19.16	83°2	17.05	83°3	8.0122	2.6284	18°09′3	L	4 12 p. m.
1	18.464	19.30	82.7	16.85	83.0	.0145	.6262	18.08.0	C	5 12 „
2	17.641	19.35	82.0	16.85	82.5	.0153	.6262	18.08.0	C	6 12 „
3	18.464	18.66	81.5	16.90	82.2	.0040	.6268	18.09.8	C	7 12 „
4	18.738	18.68	81.2	16.91	82.0	.0042	.6269	18.09.8	C	8 12 „
5	19.013	18.66	80.4	16.86	81.3	.0040	.6263	18.09.6	H	9 12 „
6	19.150	18.59	80.0	16.83	81.0	.0027	.6260	18.09.6	H	10 12 „
7	19.699	18.89	79.9	16.84	80.8	.0077	.6261	18.09.0	H	11 12 „
8	19.561	18.80	79.7	16.85	80.8	.0063	.6262	18.09.2	H	Midnight.
9	19.630	18.90	79.8	16.93	81.0	.0079	.6271	18.09.4	L	1 12 a. m.
10	19.630	19.29	79.9	16.90	80.8	.0132	.6268	18.08.6	L	2 12 „
11	20.110	19.02	80.0	16.96	80.6	.0099	.6274	18.09.2	L	3 12 „
12	20.316	18.72	80.0	16.97	80.6	.0050	.6275	18.09.9	L	4 12 „
13	20.590	18.70	80.0	16.97	80.7	.0046	.6275	18.09.9	C	5 12 „
14	22.168	18.65	80.0	17.04	80.8	.0038	.6283	18.10.2	C	6 12 „
15	23.198	18.59	80.2	17.04	80.7	.0027	.6283	18.10.5	C	7 12 „
16	22.237	18.68	80.6	16.99	80.8	.0042	.6277	18.10.2	C	8 12 „
17	20.865	18.87	80.9	16.93	80.9	.0075	.6271	18.09.4	H	9 12 „
18	18.327	18.90	81.5	16.85	81.0	.0079	.6262	18.09.0	H	10 12 „
19	16.955	18.93	82.3	16.85	81.8	.0083	.6262	18.09.0	H	11 12 „
20	16.269	18.85	83.2	16.88	82.7	.0075	.6265	18.09.2	H	Noon.
21	16.749	18.84	83.6	16.94	83.0	.0069	.6272	18.09.5	L	1 12 p. m.
22	18.189	18.91	84.0	16.99	83.6	.0080	.6277	18.09.7	L	2 12 „
23	19.287	18.88	84.0	17.02	84.0	.0075	.6281	18.09.8	L	3 12 „
SEPT. 15TH-Noon.	19.836	19.02	84.0	17.04	84.1	.0099	.6281	18.09.5	L	4 12 „
1	19.013	18.93	83.5	16.66	84.0	.0083	.6241	18.08.3	C	5 12 „
2	18.875	18.70	82.9	16.56	83.6	.0046	.6232	18.08.2	C	6 12 „
3	19.150	18.29	82.1	16.49	83.1	7.9978	.6222	18.08.8	C	7 12 „
4	19.287	18.10	82.0	16.47	83.0	.9948	.6220	18.09.1	C	8 12 „
5	19.287	18.42	81.8	16.48	82.8	8.0001	.6221	18.08.5	H	9 12 „
6	19.424	18.53	81.6	16.48	82.6	.0017	.6221	18.08.2	H	10 12 „
7	19.424	18.60	81.5	16.46	82.4	.0030	.6219	18.08.0	H	11 12 „
8	19.493	18.62	81.4	16.47	82.2	.0034	.6220	18.08.1	H	Midnight.
9	19.356	18.98	81.1	16.46	82.0	.0091	.6219	18.07.2	L	1 12 a. m.
10	19.561	18.90	81.1	16.48	81.9	.0079	.6221	18.07.5	L	2 12 „
11	20.316	18.70	81.0	16.49	81.7	.0046	.6222	18.07.8	L	3 12 „
12	20.247	18.80	81.0	16.50	82.7	.0063	.6224	18.07.8	L	4 12 „
13	20.316	18.79	80.9	16.52	81.6	.0060	.6226	18.07.9	C	5 12 „
14	21.482	18.76	80.9	16.55	81.6	.0056	.6229	18.08.0	C	6 12 „
15	22.237	18.53	81.0	16.76	81.6	.0017	.6252	18.09.4	C	7 12 „
16	21.276	18.70	81.5	16.70	81.8	.0046	.6246	18.08.8	C	8 12 „
17	19.081	18.90	82.0	16.64	82.0	.0079	.6239	18.08.2	H	9 12 „
18	17.023	19.01	82.5	16.64	82.5	.0095	.6239	18.07.9	H	10 12 „
19	16.337	19.13	83.0	16.64	82.8	.0116	.6239	18.07.6	H	11 12 „
20	16.269	19.25	83.9	16.69	83.5	.0126	.6244	18.07.7	H	Noon.
21	16.406	19.19	84.0	16.66	83.6	.0126	.6241	18.07.6	L	1 12 p. m.
22	17.641	19.04	83.8	16.71	83.6	.0101	.6247	18.08.3	L	2 12 „
23	19.081	19.05	84.0	16.70	84.0	.0103	.6246	18.08.2	L	3 12 „
SEPT. 16TH-Noon.	19.904	19.06	83.9	16.69	84.3	.0105	.6244	18.08.0	L	4 12 „
1	19.287	19.06	83.4	16.62	84.1	.0105	.6237	18.07.8	C	5 12 „
2	18.601	19.02	82.6	16.61	83.6	.0099	.6236	18.07.8	C	6 12 „
3	18.738	18.81	82.0	16.64	83.1	.0064	.6239	18.08.4	C	7 12 „
4	18.807	18.75	82.0	16.66	83.0	.0050	.6241	18.08.6	C	8 12 „
5	19.287	18.67	81.4	16.68	82.6	.0042	.6243	18.08.9	H	9 12 „
6	19.561	18.71	81.3	16.66	82.1	.0047	.6241	18.08.6	H	10 12 „
7	19.699	18.65	81.1	16.68	82.1	.0038	.6243	18.08.9	H	11 12 „
8	19.699	18.66	81.1	16.69	82.0	.0040	.6244	18.08.9	H	Midnight.
9	19.836	18.75	81.0	16.70	81.8	.0054	.6246	18.08.8	L	1 12 a. m.
10	20.110	18.55	80.3	16.75	81.3	.0021	.6251	18.09.4	L	2 12 „
11	19.973	18.72	80.2	16.76	81.2	.0050	.6252	18.09.0	L	3 12 „

DAILY OBSERVATIONS FROM 16TH TO 18TH SEPTEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Sept. 16th—12	19·7767	18.78	80°2	16.76	81°0	8.0058	2.6252	18°08'9	L	4 12 a. m.
13	20.042	18.82	80.1	16.78	81.0	·0067	.6254	18·08.9	C	5 12 „
14	22.168	18.81	80.1	16.83	80.9	.0064	.6260	18·09.2	C	6 12 „
15	23.404	18.72	80.2	16.85	81.0	.0050	.6262	18.09.3	C	7 12 „
16	22.923	18.64	80.4	16.76	81.0	.0036	.6252	18.09.2	C	8 12 „
17	20.865	18.85	80.4	16.71	81.0	.0071	.6247	18.08.7	H	9 12 „
18	18.738	19.04	80.0	16.68	80.6	.0101	.6243	18.08.1	H	10 12 „
19	16.474	19.24	80.0	16.72	80.6	.0124	.6248	18.08.0	H	11 12 „
20	16.131	19.24	80.8	16.74	81.0	.0124	.6248	18.08.1	H	Noon.
21	16.269	19.18	80.7	16.79	80.9	.0124	.6255	18.08.3	L	1 12 p. m.
22	17.435	19.16	81.0	16.81	81.0	.0122	.6358	18.08.4	L	2 12 „
23	19.424	18.98	80.3	16.87	80.8	.0091	.6264	18.08.9	L	3 12 „
Sept. 17th-Noon.	20.453	18.94	80.2	16.87	80.7	.0085	.6264	18.08.9	L	4 12 „
1	19.493	18.99	80.6	16.83	81.0	.0093	.6260	18.08.8	C	5 12 „
2	18.601	18.93	80.1	16.84	81.0	.0083	.6261	18.09.0	C	6 12 „
3	18.807	18.79	80.0	16.85	81.0	.0060	.6262	18.09.2	C	7 12 „
4	18.807	18.72	80.0	16.88	81.0	.0050	.6265	18.09.5	C	8 12 „
5	18.875	18.79	80.3	16.88	81.0	.0060	.6265	18.09.4	H	9 12 „
6	19.013	18.79	80.3	16.88	81.0	.0060	.6265	18.09.4	H	10 12 „
7	19.150	18.85	80.5	16.88	81.0	.0071	.6265	18.09.3	H	11 12 „
8	19.356	18.88	80.5	16.87	81.0	.0075	.6264	18.09.1	H	Midnight.
9	19.561	18.84	80.2	16.87	81.0	.0069	.6264	18.09.2	L	1 12 a. m.
10	19.403	18.82	80.2	16.85	81.0	.0067	.6262	18.09.1	L	2 12 „
11	19.836	18.86	80.0	16.86	80.7	.0073	.6263	18.09.2	L	3 12 „
12	19.973	18.83	79.9	16.84	80.5	.0067	.6261	18.09.1	L	4 12 „
13	20.042	18.89	79.9	16.87	80.5	.0077	.6264	18.09.1	C	5 12 „
14	20.865	18.86	79.8	16.89	80.4	.0073	.6266	18.09.3	C	6 12 „
15	22.649	18.71	79.6	16.89	80.2	.0047	.6266	18.09.5	C	7 12 „
16	22.512	18.72	79.6	16.88	80.1	.0050	.6265	18.09.5	C	8 12 „
17	21.002	19.00	79.9	16.81	80.2	.0095	.6258	18.08.7	H	9 12 „
18	18.807	19.24	79.9	16.83	80.3	.0124	.6260	18.08 4	H	10 12 „
19	17.229	19.38	80.8	16.78	81.0	.0157	.6254	18.07.7	H	11 12 „
20	16.337	19.16	79.8	16.82	80.6	.0122	.6259	18.08.4	H	Noon.
21	17.229	19.24	80.6	16.86	80.6	.0124	.6263	18.08.5	L	1 12 p. m.
22	17.846	19.05	81.0	16.87	81.0	.0103	.6264	18.08.8	L	2 12 „
23	19.218	18.89	80.1	16.87	80.7	·0064	.6264	18.09.3	L	3 12 „
Sept. 18th-Noon.	19.699	18.98	80.0	16.82	80.6	.0091	.6259	18.08.8	L	4 12 „
1	19.150	18.96	79.8	16.82	80.5	.0089	.6259	18.08.8	C	5 12 „
2	18.670	18.87	79.6	16.79	80.4	.0075	.6255	18.08.9	C	6 12 „
3	18.670	18.80	79.6	16.78	80.4	·0063	.6254	18.09.0	C	7 12 „
4	18.738	18.87	79.7	16.80	80.3	.0075	.6257	18.09.0	C	8 12 „
5	18.738	18.87	79.8	16.82	80.2	.0075	.6259	18.09.0	H	9 12 „
6	19.013	18.77	79.8	16.80	80.5	.0058	.6257	18.09.2	H	10 12 „
7	19.081	18.68	79.7	16.99	80.4	.0042	.6277	18.10.2	H	11 12 „
8	19.561	18.80	79.6	16.79	80.3	.0063	.6255	18.09.1	H	Midnight.
9	19.699	18.63	79.6	16.79	80.3	.0034	.6255	18.09.5	L	1 12 a. m.
10	19.424	18.84	79.6	16.76	80.1	.0069	.6252	18.08.8	L	2 12 „
11	20.042	18.77	79.0	16.77	79.7	.0058	.6253	18.09.0	L	3 12 „
12	19.699	18.56	79.0	16.74	79.4	·0023	.6250	18.09.4	L	4 12 „
13	19.699	18.60	78.9	16.76	79.5	.0030	.6252	18.09.3	C	5 12 „
14	21.482	18.54	79.0	16.79	79.6	.0019	.6255	18.09.6	C	6 12 „
15	23.130	18.29	78.8	16.87	79.3	7.9978	.6265	18.10.5	C	7 12 „
16	23.335	19.47	78.6	16.82	79.2	8.0009	6259	18.09.9	C	8 12 „
17	21.345	18.89	79.2	16.79	79.4	.0077	.6255	18.08.9	H	9 12 „
18	19.218	19.27	80.1	16.76	79.9	.0130	.6252	18.08.0	H	10 12 „
19	17.366	19.38	80.1	16.72	80.1	.0157	.6248	18.07.5	H	11 12 „
20	16.474	19.37	79.2	16.77	79.8	.0157	.6253	18.07.7	H	Noon.
21	17.160	19.38	78.7	16.79	79.0	.0157	.6257	18.07.8	L	1 12 p. m.
22	18.738	19.17	78.5	16.82	78.9	.0124	.6259	18.08.4	L	2 12 „
23	20.179	19.09	79.0	16.82	77.0	.0109	.6259	18.08.6	L	3 12 „

DAILY OBSERVATIONS FROM 20TH TO 22ND SEPTEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Sept. 20th-Noon.	20.042	18·88	78°9	16.65	79°5	8·0075	2·6240	18°08′3	C	4 12 p. m.
1	19·630	18.92	78.9	16.64	79.5	.0083	.6239	18.08.2	C	5 12 ,,
2	18.670	18·93	79.0	16.64	79.5	.0083	·6239	18.08.2	C	6 12 ,,
3	18·532	18.92	79.2	16.64	79.6	.0083	.6239	18.08.2	C	7 12 ,,
4	18.601	18·81	79·0	16.64	79.6	.0064	·6239	18.08.4	C	8 12 ,,
5	18.601	18.88	79.2	16.63	79.7	.0075	·6238	18.08.2	H	9 12 ,,
6	18.738	18.92	79.6	16.63	79.8	.0083	.6238	18.08.2	H	10 12 ,,
7	18.875	18.92	79.6	16.61	79.8	.0083	·6236	18.08.1	H	11 12 ,,
8	18.875	18.92	79.6	16.53	79.8	.0083	·6229	18.07.8	H	Midnight.
9	18.944	18.90	79.5	16.52	80.0	.0079	·6226	18.07.7	L	1 12 a. m.
10	18·944	18.93	79.6	16.54	79.9	.0083	.6228	18.07.8	L	2 12 ,,
11	18·875	19.03	79·6	16.50	79.9	.0099	.6224	18.07.3	L	3 12 ,,
12	18.944	19·04	79.7	16.50	79.9	.0101	.6224	18.07.3	L	4 12 ,,
13	19.287	19.11	79.8	16.50	80.0	.0113	.6224	18.07.2	C	5 12 ,,
14	20.933	19.11	79.8	16.50	80.0	·0113	.6224	18.07.0	C	6 12 ,,
15	22.787	19.10	79.8	16.48	80.0	.0112	.6221	18.07.1	C	7 12 ,,
16	22.101	19.33	79.9	16.38	80.0	.0149	.6210	18.06.1	C	8 12 ,,
17	19·767	20.03	81.0	16.28	80.8	.0263	.6198	18.04.1	H	9 12 ,,
18	17·572	20.13	80.9	16.18	80.8	.0280	.6188	18.03.6	H	10 12 ,,
19	15.572	19.98	81.0	16.14	80.9	.0255	.6184	18.03.6	H	11 12 ,,
20	14·965	20.26	80·8	16.14	80.9	.0302	.6184	18.03.1	H	Noon.
21	15·720	19.88	81.0	16.18	80.9	.0238	.6188	18.04.1	L	1 12 p. m.
22	16.955	19.66	80.8	16.18	81.0	·0204	.6188	18.04.6	L	2 12 ,,
23	18.738	18.73	80.1	16.17	80.4	.0048	.6187	18.05.5	L	3 12 ,,
Sept. 21st-Noon.	18.875	18·83	79.9	16.16	80·4	.0067	.6186	18.06.2	L	4 12 ,,
1	18.738	18.64	80.0	16.19	80.6	.0036	.6189	18.06.7	C	5 12 ,,
2	19.287	17.89	80.0	16.16	80.6	7.9886	.6186	18.08.5	C	6 12 ,,
3	21.208	17.40	79.5	16.21	80·5	.9834	.6192	18.09.5	C	7 12 ,,
4	20.796	17.25	79.0	16.19	80.1	.9813	.6189	18.09.7	C	8 12 ,,
5	20.728	16.98	79.1	16.19	80·0	.9740	.6189	18.10.6	H	9 12 ,,
6	20.865	17.56	79.0	16.20	79.9	·9841	.6192	18.09.4	H	10 12 ,,
7	20·179	17.65	78.9	16.23	79.8	.9859	.6194	18.09.2	H	11 12 ,,
8	20.179	17.90	79.0	16.24	79.6	.9916	.6105	18.08.5	H	Midnight.
9	19.493	18.00	79.0	16.22	79.4	.9932	.6193	18.08.3	L	1 12 a. m.
10	19·699	18.19	79.0	16.23	79.2	.9962	.6194	18.07.9	L	2 12 ,,
11	19.767	18.17	78.7	16.23	79.0	·9960	.6194	18.07.9	L	3 12 ,,
12	19.218	18.29	78.7	16.24	79.0	·9978	.6195	18.07.8	L	4 12 ,,
13	19·218	18.34	78·9	16.24	79.1	·9987	.6195	18.07.6	C	5 12 ,,
14	21·276	18.24	78.9	16.28	79.3	.9968	.6199	18.08.0	C	6 12 ,,
15	22.444	18.26	79.0	16.19	79.1	·9974	.6189	18.07.6	C	7 12 ,,
16	22.168	18.47	79.9	16.17	79.7	8·0009	.6187	18.07.1	C	8 12 ,,
17	20·933	18·83	80.7	16.17	80.4	.0069	.6187	18.05.6	H	9 12 ,,
18	19·424	18.85	80.6	15.81	80.4	.0071	·6148	18.04.8	H	10 12 ,,
19	17.641	18.73	80.4	15.81	80·2	.0050	·6148	18.05.0	H	11 12 ,,
20	16.474	18.80	81.6	15.78	81.0	.0063	.6144	18.04.7	H	Noon.
21	16.817	19.04	82.5	15.60	81.7	·0101	.6125	18·03.5	L	1 12 p. m.
22	18·258	18.91	82.5	15.46	82.0	·0080	.6120	18.03.6	L	2 12 ,,
23	19.699	18·55	82.4	15.35	82.2	.0013	.6097	18.03.6	L	3 12 ,,
Sept. 22nd-Noon.	19.767	18.65	82.3	15.22	82.6	.0040	.6083	18.02.6	L	4 12 ,,
1	19·767	18.46	81.9	15.07	82·4	.0007	.6066	18·02.3	C	5 12 ,,
2	20·042	18.15	80.9	15.16	82.0	7.9951	.6076	18.03.4	C	6 12 ,,
3	19.424	18.51	80.5	15.16	81.4	8.0014	.6076	18.02.7	C	7 12 ,,
4	19.493	18.16	80.3	15.15	81.1	7.9958	.6075	18.03.3	C	8 12 ,,
5	19.287	18.24	80.1	15.08	81.0	.9970	.6067	18.02.9	H	9 12 ,,
6	19.218	18.24	80.0	15.03	81·0	·9970	.6062	18.02.6	H	10 12 ,,
7	19.218	18.37	80.0	15.03	80.9	.9993	.6062	18.02.3	H	11 12 ,,
8	18·807	18.67	80·0	15.07	80.6	8.0042	.6066	18.01.9	H	Midnight.
9	19.287	18.48	79.8	15.07	80.6	.0009	.6066	18.02.3	L	1 12 a. m.
10	19.287	18.55	79.7	15.04	80·5	·0021	.6063	18.02.0	L	2 12 ,,
11	19.013	18.54	79.6	15.03	80·2	.0019	.6062	18.01.9	L	3 12 ,,

On the 21st, at about 19h., Dip as obtained by Observation was 19°15′0.

DAILY OBSERVATIONS FROM 22ND TO 24TH SEPTEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Sept. 22nd—12	19·013	18.51	79°5	15.05	80°1	8.0064	2.6064	18°02'2	L	4 12 a. m.
13	20.110	18.52	79.4	15.06	80.1	.0017	.6065	18.02.1	C	5 12 „
14	21·482	18.30	79.3	15.16	80.0	7.9981	.6076	18.03.1	C	6 12 „
15	22.444	18.23	79.3	15.18	80.0	.9964	.6078	18.03.3	C	7 12 „
16	21.688	18.39	80.0	15.09	80.2	.9995	.6068	18.02.5	C	8 12 „
17	20.247	18.66	80.9	14.98	80.8	8.0040	.6056	18.01.6	H	9 12 „
18	17.366	19.17	81.7	14.94	81.4	.0124	.6052	18.00.3	H	10 12 „
19	15.857	19.40	82.8	14.97	82.2	.0161	.6055	18.00.0	H	11 21 „
20	15.788	19.33	83.4	14.79	82.9	.0149	.6035	17.59.3	H	Noon.
21	16.749	19·15	83.5	14.57	83.0	.0120	.6011	17.58.7	L	1 12 p. m.
22	28.327	19.12	83.8	14.50	83.4	.0116	.6004	17.58.4	L	2 12 „
23	19.150	19.06	83.9	14.47	83.9	.0105	.6000	17.58.5	L	3 12 „
Sept. 23rd-Noon.	19.424	18.96	83.6	14.27.	83.9	.0089	.5978	17.59.8	L	4 12 „
1	18.944	18.87	83.0	14.21	83.6	.0075	.5972	17.57.7	C	5 12 „
2	19.218	18.46	81.8	14.28	82.6	.0007	.5979	17.58.9	C	6 12 „
3	19.287	18.50	81.0	14.41	82.0	.0013	.5993	17.59.5	C	7 12 „
4	19.150	18.44	80.9	14.49	81.7	.0003	.6002	17.59.9	C	8 12 „
5	19.013	18.55	80.7	14.49	81.5	.0021	.6002	17.59.6	H	9 12 „
6	19.424	18.50	80.6	14.48	81.2	.0013	.6001	17.59.8	H	10 12 „
7	19.218	18.95	80.4	14.58	81.0	·0087	.6012	17.59.1	H	11 12 „
8	18.327	18.47	80.4	14.63	81.0	.0009	.6018	18.00.5	H	Midnight.
9	18.189	18.78	80.0	14.70	80.6	.0058	.6026	18.00.1	L	1 12 a. m.
10	18.532	18.59	79.7	14.77	80.6	.0027	.6033	18.00.8	L	2 12 „
11	17.778	18.61	79.6	14.77	80.3	.0031	.6033	18.00.8	L	3 12 „
12	17.435	18.73	79.6	14.82	80.3	.0050	.6039	18.00.7	L	4 12 „
13	18.532	18.67	79.6	14.86	80.3	.0042	.6043	18.01.1	C	5 12 „
14	19.561	18.52	79.6	14.94	80.2	.0017	.6052	18.01.6	C	6 12 „
15	20.796	18.18	79.9	14.93	80.2	7.9960	.6051	18.02.4	C	7 12 „
16	19.699	18.44	80·8	14.91	80.9	8.0003	.6049	18.01·8	C	8 12 „
17	17.984	18.54	81.2	14.91	81.0	.0019	.6049	18.01.5	H	9 12 „
18	16.749	18.91	82.3	14.81	81.6	.0080	.6038	18.00.4	H	10 12 „
19	15.583	19.19	82.8	14.70	82.1	.0126	.6026	17.59.2	H	11 12 „
20	15·445	19.33	83.7	14.68	82.7	.0149	.6021	17.58.7	H	Noon.
21	16.131	19.35	83.6	14.55	82.8	.0153	.6009	17.58.2	L	1 12 p. m.
22	17.229	19.34	83.9	14.50	83.2	.0151	.6004	17.58.0	L	2 12 „
23	18.189	19.29	83.3	14.50	83.0	.0132	.6004	17.58.3	L	3 12 „
Sept. 24th-Noon.	18.121	19.11	82.6	14.50	83.2	.0113	.6004	17.58.6	L	4 12 „
1	18.052	18.95	82.0	14.50	83.0	.0087	.6004	17.58.8	C	5 12 „
2	17.709	18.70	81.4	14.56	82.6	.0046	.6010	17.59.6	C	6 12 „
3	17.709	18.56	81.1	14.63	82.3	.0023	.6018	18.00.3	C	7 12 „
4	17.846	18.51	81.0	14.70	82.0	.0014	.6026	18.00.8	C	8 12 „
5	17.572	18.62	81.0	14.78	81.9	.0032	.6034	18.00.8	H	9 12 „
6	17.778	18.58	79.8	14.81	81.0	.0025	.6038	18.01.0	H	10 12 „
7	17.709	18.78	79.7	14.91	80·8	.0058	.6049	18.01.0	H	11 12 „
8	18.052	18.68	79.7	15.00	80.6	·0042	.6059	18.01.7	H	Midnight.
9	17.572	19.09	79.9	15.04	80.5	.0109	.6063	18.00.9	L	1 12 a. m.
10	18.464	18.79	79.7	15.06	80.4	.0060	.6065	18.01.6	L	2 12 „
11	18.395	18.88	79.4	15.08	80.0	.0075	.6067	18.01.5	L	3 12 „
12	18.395	18.78	79.2	15.14	80.0	.0058	.6074	18.01.9	L	4 12 „
13	18.532	18.78	79.0	15.18	79.9	.0058	.6078	18.02.1	C	5 12 „
14	19·493	18.82	79.0	15.24	89.9	.0067	.6085	18.02.3	C	6 12 „
15	20.728	18.64	79.1	15.29	79.8	.0036	.6090	18.02.9	C	7 12 „
16	20.042	18.83	79.8	15.36	79.9	.0067	.6098	18.02.8	C	8 12 „
17	10·807	19.13	80.0	15.35	79.8	.0116	.6097	18.02.1	H	9 12 „
18	17.572	19.45	80.8	15.36	80.0	.0169	.6098	18.01.5	H	10 12 „
19	15.720	19·68	81.5	15.27	80.8	.0206	60.88	18.00.6	H	11 12 „
20	14.759	19.77	82.2	15.29	81.4	.0212	.6090	18.00.7	H	Noon.
21	14.759	19.49	82.9	15.26	82.0	.0175	.6087	18.01.0	L	1 12 p. m.
22	15.994	19.42	83.3	15.26	82.8	.0165	.6087	18.01.1	L	2 12 „
23	17.023	19.32	83.4	15.28	83.2	.0149	.6089	18.01.3	L	3 12 „

On the 24th at about 19h., Dip as obtained by Observation was 19°09'0.

DAILY OBSERVATIONS FROM 25TH TO 28TH SEPTEMBER 1857.

Date. Göttingen Mean Time, 1857.	Eastern Declination.	Horizontal Force Magnetometer. — Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. — Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. — In English Units.	Absolute Vertical Force. — In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Sept. 25th-Noon.	17′641	19.18	83°0	15.26	83°1	8.0124	2.6081	18°01′6	L	4 12 p. m.
1	17.503	19.12	82.1	15.33	83.0	.0116	.6095	18.02.0	C	5 12 ,,
2	17.435	18.94	81.4	15.64	82.6	.0085	.6126	18.03.7	C	6 12 ,,
3	17.503	18.77	80.9	15.75	82.2	.0058	.6141	18.04.6	C	7 12 ,,
4	17.641	18.68	80.6	15.76	81.9	.0042	.6142	18.04.9	C	8 12 ,,
5	17.846	18.70	80.5	15.80	81.5	.0046	.6147	18.05.0	H	9 12 ,,
6	17.915	18.76	80.2	15.78	81.0	.0056	.6144	18.04.7	H	10 12 ,,
7	17.984	18.79	80.0	15.78	81.0	.0060	.6144	18.04.7	H	11 12 ,,
8	18.052	18.80	79.8	15.80	80.8	.0063	.6147	18.04.9	H	Midnight.
9	18.052	18.86	79.5	15.92	80.5	.0073	.6160	18.05.2	L	1 12 a. m.
10	17.984	18.90	79.5	16.03	80.3	.0079	.6172	18.05.5	L	2 12 ,,
11	18.258	18.95	79.9	16.25	80.4	.0087	.6196	18.06.3	L	3 12 ,,
12	17.915	19.02	79.8	16.39	80.4	.0099	.6211	18.06.8	L	4 12 ,,
13	18.395	18.97	79.5	16.49	80.4	.0091	.6222	18.07.3	C	5 12 ,,
14	19.973	18.87	79.4	16.81	80.3	.0075	.6258	18.09.0	C	6 12 ,,
15	20.522	18.75	79.6	16.96	80.2	.0054	.6274	18.09.8	C	7 12 ,,
16	19.561	19.17	80.0	17.01	80.2	.0124	.6280	18.09.2	C	8 12 ,,
17	17.915	19.34	80.9	17.02	80.7	.0151	.6281	18.08.8	H	9 12 ,,
18	15.994	19.59	82.0	17.04	81.3	.0191	.6283	18.08.4	H	10 12 ,,
19	14.484	19.71	82.8	17.01	82.0	.0211	.6280	18.08.1	H	11 12 ,,
20	14.347	19.54	83.0	17.68	82.7	.0183	.6353	18.11.4	H	Noon.
21	15.857	19.15	83.4	17.89	82.1	.0120	.6376	18.12.9	L	1 12 p. m.
22	17.023	19.13	82.6	17.89	83.6	.0116	.6376	18.12.9	L	2 12 ,,
23	18.395	18.94	83.5	17.75	83.9	.0095	.6361	18.12.6	L	3 12 ,,
Sept. 27th-Noon.	18.807	19.17	83.1	19.32	84.5	.0124	.6534	18.19.1	C	4 12 ,,
1	18.121	19.15	82.2	19.21	83.7	.0120	.6522	18.18.6	C	5 12 ,,
2	17.572	19.05	81.5	19.14	83.0	.0103	.6514	18.18.6	C	6 12 ,,
3	17.503	18.95	81.2	19.13	82.5	.0087	.6513	18.18.7	C	7 12 ,,
4	17.641	18.88	81.0	19.11	82.3	.0075	.6511	18.18.8	C	8 12 ,,
5	17.709	18.84	81.0	19.11	82.2	.0069	.6511	18.18.9	H	9 12 ,,
6	17.641	18.73	80.9	19.46	82.0	.0051	.6549	18.20.6	H	10 12 ,,
7	17.984	18.74	80.7	19.46	81.9	.0052	.6549	18.20.6	H	11 12 ,,
8	18.121	18.77	80.6	19.45	81.7	.0058	.6548	18.20.5	H	Midnight.
9	18.327	18.78	80.3	19.44	81.4	.0058	.6547	18.20.5	L	1 12 a. m.
10	18.258	18.83	80.0	19.45	81.1	.0067	.6548	18.20.4	L	2 12 ,,
11	18.258	18.81	80.0	19.47	81.0	.0064	.6550	18.20.6	L	3 12 ,,
12	18.121	18.85	79.9	19.47	80.9	.0071	.6550	18.20.5	L	4 12 ,,
13	18.121	19.01	80.0	19.40	80.9	.0096	.6543	18.19.8	C	5 12 ,,
14	18.395	19.01	80.1	19.47	81.0	.0096	.6550	18.20.1	C	6 12 ,,
15	20.110	18.99	80.3	19.52	81.0	.0093	.6556	18.20.4	C	7 12 ,,
16	20.453	19.20	80.8	19.49	81.1	.0118	.6552	18.19.8	C	8 12 ,,
17	19.081	19.69	81.6	19.45	81.4	.0208	.6548	18.18.6	H	9 12 ,,
18	17.435	20.01	82.7	19.46	82.1	.0260	.6549	18.17.9	H	10 12 ,,
19	16.200	20.15	83.4	19.49	83.0	.0284	.6552	18.17.8	H	11 12 ,,
20	15.788	20.01	83.7	19.48	83.1	.0259	.6551	18.18.0	H	Noon.
21	16.817	19.87	84.0	19.49	83.6	.0238	.6552	18.18.3	L	1 12 p. m.
22	18.258	19.73	84.3	19.48	84.0	.0214	.6551	18.18.7	L	2 12 ,,
23	19.218	19.58	84.0	19.49	84.6	.0139	.6552	18.19.5	L	3 12 ,,
Sept. 28th-Noon.	19.218	19.41	83.7	19.39	84.5	.0162	.6542	18.18.9	L	4 12 ,,
1	18.601	19.24	83.0	19.33	84.0	.0124	.6535	18.19.2	C	5 12 ,,
2	17.778	19.10	82.0	19.27	83.4	.0112	.6528	18.19.1	C	6 12 ,,
3	17.709	18.99	81.6	19.26	83.0	.0093	.6527	18.19.3	C	7 12 ,,
4	17.846	18.93	81.5	19.24	82.7	.0083	.6525	18.19.4	C	8 12 ,,
5	17.778	18.91	81.3	19.21	82.3	.0080	.6522	18.19.2	H	9 12 ,,
6	17.915	18.89	81.2	19.20	82.1	.0077	.6521	18.19.2	H	10 12 ,,
7	18.052	18.91	81.0	19.20	82.0	.0080	.6521	18.19.2	H	11 12 ,,
8	18.052	18.05	80.9	19.19	81.8	.0103	.6519	18.18.8	H	Midnight.
9	18.327	18.89	80 7	19.17	81.5	.0077	.6517	18.19.1	L	1 12 a. m.
10	18.121	19.09	80.6	19.14	81.4	.0109	.6514	18.18.5	L	2 12 ,,
11	18.258	19.08	80.6	19.17	81.3	.0107	.6517	18.18.7	L	3 12 ,,

On the 25th, at about 20h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 28TH TO 30TH SEPTEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical ForceMagneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Sept. 28th—12	18'189	19.06	80°4	19.19	81°3	8.0105	2.6519	18°18'7	L	4 12 a. m.
13	18.464	18.96	80.1	19.17	81.1	.0089	.6517	18.18.8	C	5 12 „
14	19.081	19.00	80.0	19.19	81.0	.0095	.6519	18.18.8	C	6 12 „
15	20.042	19.08	80.4	19.22	81.0	.0107	.6523	18.18.9	C	7 12 „
16	20.042	19.40	81.0	19.22	81.2	.0161	.6523	18.18.2	C	8 12 „
17	18.738	19.81	81.8	19.19	81.5	.0227	.6515	18.17.2	H	9 12 „
18	16.955	20.10	82.7	19.19	82.0	.0276	.6519	18.16.5	H	10 12 „
19	15.368	20.32	83.6	19.21	83.0	.0312	.6522	18.16.2	H	11 12 „
20	15.034	20.15	84.0	19.23	83.5	.0284	.6524	18.16.7	H	Noon.
21	16.269	19.97	84.3	19.18	83.9	.0255	.6518	18.16.7	L	1 12 p. m.
22	17.709	19.89	84.8	19.17	84.4	.0240	.6517	18.17.0	L	2 12 „
23	18.670	19.73	84.9	19.15	85.0	.0214	.6515	18.17.3	L	3 12 „
Sept. 29th—Noon.	18.532	19.46	84.5	18.95	85.0	.0171	.6493	18.16.9	L	4 12 „
1	17.503	19.31	83.8	18.89	84.8	.0146	.6486	18.16.8	C	5 12 „
2	17.092	19.20	83.0	18.89	84.2	.0118	.6486	18.17.2	C	6 12 „
3	17.298	19.02	82.5	18.89	83.8	.0099	.6486	18.17.5	C	7 12 „
4	17.641	19.02	82.2	18.88	83.5	.0099	.6485	18.17.5	C	8 12 „
5	17.709	18.86	82.0	18.85	83.1	.0073	.6482	18.17.7	H	9 12 „
6	17.778	18.94	82.0	18.85	83.0	.0085	.6482	18.17.4	H	10 12 „
7	18.258	18.96	81.9	18.85	83.0	.0089	.6482	18.17.4	H	11 12 „
8	18.189	18.94	81.7	18.84	82.8	.0085	.6481	18.17.4	H	Midnight.
9	18.395	18.90	81.2	18.83	82.0	.0079	.6480	18.17.6	L	1 12 a. m.
10	18.189	18.88	80.2	18.82	81.4	.0075	.6479	18.17.5	L	2 12 „
11	18.327	18.94	79.7	18.83	81.0	.0085	.6480	18.17.4	L	3 12 „
12	17.778	18.99	79.4	18.80	80.7	.0093	.6477	18.17.3	L	4 12 „
13	17.846	19.11	79.2	18.82	80.6	.0113	.6479	18.17.1	C	5 12 „
14	18.875	19.25	79.5	18.82	80.6	.0126	.6479	18.16.8	C	6 12 „
15	19.904	19.14	80.0	18.82	80.7	.0118	.6479	18.16.9	C	7 12 „
16	19.081	19.42	81.0	18.83	81.0	.0165	.6480	18.16.4	C	8 12 „
17	17.846	19.92	82.0	18.85	81.6	.0247	.6482	18.15.3	H	9 12 „
18	16.680	20.10	83.0	18.84	82.4	.0276	.6481	18.15.0	H	10 12 „
19	16.131	20.58	83.7	18.84	83.0	.0353	.6481	18.14.0	H	11 12 „
20	15.926	20.08	83.9	18.84	83.4	.0291	.6481	18.14.8	H	Noon.
21	16.749	19.96	84.4	18.87	84.0	.0253	.6484	18.15.4	L	1 12 p. m.
22	18.532	19.56	84.4	18.84	84.5	.0187	.6481	18.16.1	L	2 12 „
23	19.150	19.73	84.4	18.83	84.9	.0214	.6480	18.15.9	L	3 12 „
Sept. 30th—Noon.	18.601	19.24	84.3	18.81	85.0	.0124	.6478	18.16.9	L	4 12 „
1	17.915	18.67	83.6	18.48	84.7	.0042	.6441	18.16.6	C	5 12 „
2	18.052	18.75	83.0	18.45	84.0	.0050	.6438	18.16.3	C	6 12 „
3	18.189	18.47	82.5	18.44	83.5	.0009	.6437	18.16.9	C	7 12 „
4	18.052	18.54	82.1	18.44	83.0	.0019	.6437	18.16.7	C	8 12 „
5	18.121	18.40	82.0	18.47	83.0	7.9997	.6440	18.17.1	H	9 12 „
6	18.532	18.44	81.6	18.46	82.7	8.0003	.6439	18.17.0	H	10 12 „
7	18.738	18.54	81.4	18.47	82.4	.0019	.6440	18.16.8	H	11 12 „
8	18.601	18.53	81.2	18.47	82.1	.0017	.6440	18.17.2	H	Midnight.
9	18.738	18.71	81.4	18.52	82.2	.0047	.6446	18.16.7	L	1 12 a. m.
10	18.464	18.73	81.2	18.54	82.2	.0050	.6448	18.16.7	L	2 12 „
11	18.601	18.86	81.0	18.54	82.0	.0073	.6448	18.16.5	L	3 12 „
12	18.464	18.85	80.9	18.57	81.6	.0071	.6451	18.16.6	L	4 12 „
13	18.532	18.85	80.8	18.60	81.6	.0071	.6455	18.16.8	C	5 12 „
14	19.630	18.78	80.6	18.62	81.5	.0058	.6457	18.17.0	C	6 12 „
15	20.451	18.64	80.7	18.63	81.4	.0036	.6458	18.17.3	C	7 12 „
16	19.561	18.83	81.0	18.19	81.5	.0067	.6409	18.14.9	C	8 12 „
17	17.709	19.21	81.9	18.15	81.8	.0119	.6405	18.14.1	H	9 12 „
18	17.028	19.43	82.9	18.20	82.5	.0165	.6411	18.13.7	H	10 12 „
19	16.200	19.43	83.5	18.21	83.0	.0165	.6412	18.13.7	H	11 12 „
20	15.720	19.21	84.1	18.32	83.7	.0132	.6424	18.14.7	H	Noon.
21	16.406	19.05	84.7	18.36	84.1	.0105	.6428	18.15.2	L	1 12 p. m.
22	17.432	18.94	85.3	18.47	84.9	.0085	.6440	18.15.9	L	2 12 „
23	18.395	18.78	85.3	18.41	85.4	.0056	.6434	18.16.0	L	3 12 „

On the 28th, at about 19h., Dip as obtained by Observation was 19°09'4.

DAILY OBSERVATIONS FROM 1ST TO 4TH OCTOBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
OCT. 1ST—Noon.	18'464	18.73	85°0	18.39	85°6	8.0050	2.6431	18°16'0	L	4 12 p. m.
1	18.052	18.60	84.2	18.29	85.3	.0030	.6420	18.15.9	C	5 12 ,,
2	17.846	18.36	83.5	18.26	84.5	7.9991	.6417	18.16.3	C	6 12 ,,
3	18.189	18.20	82.9	18.27	84.0	.9964	.6418	18.16.7	C	7 12 ,,
4	18.327	18.18	82.5	18.27	83.6	.9960	.6418	18.16.7	C	8 12 ,,
5	18.464	18.24	82.3	18.28	83.3	.9970	.6419	18.16.6	H	9 12 ,,
6	18.387	18.42	82.0	18.28	83.0	8.0001	.6419	18.16.2	H	10 12 ,,
7	18.532	18.42	81.8	18.29	82.9	.0001	.6420	18.16.3	H	11 12 ,,
8	18.327	18.74	81.5	18.29	82.7	.0052	.6420	18.15.6	H	Midnight.
9	18.327	18.70	81.4	18.33	82.4	.0046	.6425	18.15.8	L	1 12 a. m.
10	18.052	18.83	81.6	18.35	82.4	.0067	.6427	18.15.7	L	2 12 ,,
11	17.915	18.88	81.4	18.37	82.2	.0075	.6429	18.15.6	L	3 12 ,,
12	17.915	18.95	81.2	18.38	82.0	.0087	.6430	18.15.5	L	4 12 ,,
13	18.121	18.85	81.1	18.41	82.0	.0071	.6434	18.15.9	C	5 12 ,,
14	19.493	18.80	81.0	18.44	81.9	.0063	.6437	18.16.2	C	6 12 ,,
15	20.042	18.70	81.0	18.45	81.7	.0046	.6438	18.16.3	C	7 12 ,,
16	19.493	18.80	81.5	18.45	82.0	.0063	.6438	18.16.2	C	8 12 ,,
17	18.464	19.07	82.4	18.43	82.3	.0107	.6436	18.15.5	H	9 12 ,,
18	17.503	19.39	83.6	18.46	83.0	.0159	.6439	18.14.9	H	10 12 ,,
19	16.269	19.46	84.2	18.43	83.7	.0171	.6436	18.14.7	H	11 12 ,,
20	14.554	19.54	84.6	18.44	84.1	.0183	.6437	18.14.7	H	Noon.
21	14.897	19.39	84.9	18.47	84.6	.0159	.6440	18.15.0	L	1 12 p. m.
22	16.817	19.19	85.0	18.49	85.3	.0126	.6442	18.15.4	L	2 12 ,,
23	18.189	18.99	84.8	18.47	85.6	.0093	.6440	18.15.9	L	3 12 ,,
OCT. 2ND—Noon.	18.875	18.87	84.4	18.41	85.7	.0075	.6434	18.15.8	L	4 12 ,,
1	18.189	18.89	83.7	18.35	85.1	.0077	.6427	18.15.6	C	5 12 ,,
2	17.984	18.83	82.9	18.31	84.4	.0067	.6423	18.15.5	C	6 12 ,,
3	18.052	18.70	82.6	18.32	83.9	.0046	.6424	18.15.7	C	7 12 ,,
4	17.915	18.75	82.4	18.33	83.5	.0054	.6425	18.15.8	C	8 12 ,,
5	17.984	18.85	82.2	18.31	83.1	.0071	.6423	18.15.5	H	9 12 ,,
6	18.121	18.67	82.0	18.31	83.0	.0042	.6423	18.15.9	H	10 12 ,,
7	18.670	18.58	82.0	18.34	83.0	.0025	.6426	18.16.1	H	11 12 ,,
8	18.395	18.54	81.9	18.34	82.9	.0029	.6426	18.16.1	H	Midnight.
9	18.738	18.61	81.7	18.37	82.6	.0031	.6427	18.16.2	L	1 12 a. m.
10	18.738	18.71	81.6	18.38	82.6	.0047	.6430	18.16.0	L	2 12 ,,
11	18.327	18.78	81.4	18.42	82.5	.0058	.6435	18.16.1	L	3 12 ,,
12	17.778	18.83	81.2	18.41	82.3	.0067	.6434	18.15.9	L	4 12 ,,
13	18.052	18.69	81.0	18.43	82.2	.0044	.6436	18.16.4	C	5 12 ,,
14	19.424	18.66	80.6	18.46	81.9	.0040	.6439	18.16.5	C	6 12 ,,
15	20.110	18.60	80.6	18.46	81.8	.0030	.6439	18.16.6	C	7 12 ,,
16	19.493	18.77	81.1	18.45	82.0	.0058	.6438	18.16.2	C	8 12 ,,
17	17.984	19.19	82.1	18.45	82.4	.0124	.6438	18.15.4	H	9 12 ,,
18	16.886	19.56	83.1	18.47	83.0	.0187	.6440	18.14.6	H	10 12 ,,
19	15.240	19.76	83.8	18.46	83.5	.0220	.6439	18.14.1	H	11 12 ,,
20	14.210	19.80	84.4	18.47	84.0	.0226	.6440	18.14.2	H	Noon.
21	15.308	19.63	84.6	18.48	84.3	.0198	.6441	18.14.5	L	1 12 p. m.
22	16.955	19.47	84.8	18.51	84.9	.0173	.6445	18.15.1	L	2 12 ,,
23	18.121	19.32	84.6	18.50	85.3	.0149	.6444	18.15.2	L	3 12 ,,
OCT. 4TH—Noon.	18.601	19.28	82.1	18.53	82.7	.0130	.6447	18.15.7	L	4 12 ,,
1	18.052	19.24	81.8	18.51	82.4	.0124	.6445	18.15.7	L	5 12 ,,
2	17.503	19.16	81.2	18.52	82.3	.0122	.6446	18.15.7	L	6 12 ,,
3	17.435	18.99	80.9	18.51	81.9	.0093	.6445	18.16.1	L	7 12 ,,
4	17.572	18.96	80.6	18.51	81.7	.0089	.6445	18.16.1	L	8 12 ,,
5	17.641	18.92	80.3	18.54	81.6	.0083	.6448	18.16.4	C	9 12 ,,
6	17.641	19.01	80.3	18.55	81.6	.0096	.6449	18.16.1	C	10 12 ,,
7	17.778	19.03	80.4	18.56	81.6	.0099	.6450	18.16.2	C	11 12 ,,
8	17.846	19.03	80.4	18.54	81.5	.0099	.6448	18.16.1	C	Midnight.
9	17.846	19.24	80.3	18.54	81.5	.0124	.6448	18.15.8	H	1 12 a. m.
10	17.984	19.12	80.3	18.52	81.4	.0116	.6446	18.15.7	H	2 12 ,,
11	17.366	18.97	80.2	18.52	81.3	.0091	.6446	18.16.1	H	3 12 ,,

On the 1st, at about 19h., Dip as obtained by Observation was 19°09'4.
On the 2nd, at about 20h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 4TH TO 6TH OCTOBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Oct. 4th—12	17'503	19.26	80°0	18.51	81°1	8.0128	2.6445	18°15'6	H	4 12 a. m.
13	17.846	19.17	79.9	18.51	81.0	.0124	.6445	18.15.9	L	5 12 „
14	18.532	19.06	79.8	18.55	80.9	.0105	.6449	18.16.0	L	6 12 „
15	19.767	18.97	80.1	18.54	80.9	.0091	.6448	18.16.2	L	7 12 „
16	19.973	19.24	80.3	18.54	80.8	.0124	.6448	18.15.1	L	8 12 „
17	18.944	19.80	81.6	18.54	81.5	.0226	.6448	18.14.4	C	9 12 „
18	18.395	19.72	82.1	18.56	82.1	.0214	.6450	18.14.8	C	10 12 „
19	16.474	19.95	83.1	18.55	82.7	.0251	.6449	18.14.1	C	11 12 „
20	15.377	20.08	83.9	18.55	83.1	.0271	.6449	18.13.9	C	Noon.
21	15.445	19.81	84.0	18.57	83.7	.0227	.6451	18.14.5	H	1 12 p. m.
22	16.337	19.68	84.0	18.57	84.0	.0206	.6451	18.14.8	H	2 12 „
23	17.289	19.30	84.0	18.58	84.5	.0145	.6452	18.15.5	H	3 12 „
Oct. 5th—Noon.	17.846	19.50	83.6	18.54	84.5	.0177	.6448	18.15.1		4 12 „
1	17.778	19.31	82.8	18.43	83.7	.0146	.6436	18.14.9		5 12 „
2	17.092	19.15	82.2	18.44	83.4	.0120	.6437	18.15.4		6 12 „
3	17.366	18.82	82.0	18.43	83.0	.0066	.6436	18.16.0		7 12 „
4	17.503	18.58	81.9	18.43	82.7	.0025	.6436	18.16.6		8 12 „
5	17.846	18.41	81.6	18.46	82.6	7.9998	.6439	18.17.0		9 12 „
6	17.915	18.75	81.5	18.45	82.6	8.0054	.6438	18.16.3		10 12 „
7	18.121	18.71	81.3	18.48	82.4	.0047	.6441	18.16.4		11 12 „
8	18.258	18.75	81.2	18.50	82.2	.0054	.6444	18.16.5		Midnight.
9	18.052	18.92	81.0	18.49	82.0	.0082	.6443	18.16.2		1 12 a. m.
10	18.052	18.83	81.0	18.53	82.0	.0067	.6447	18.16.6		2 12 „
11	18.052	18.82	81.0	18.54	81.9	.0066	.6446	18.16.6		3 12 „
12	18.121	18.84	80.9	18.53	81.8	.0068	.6447	18.16.5		4 12 „
13	18.189	18.92	80.7	18.57	81.6	.0082	.6454	18.16.9		5 12 „
14	28.738	18.86	80.3	18.57	81.2	.0073	.6451	18.16.6		6 12 „
15	19.973	19.06	80.8	18.58	81.3	.0105	.6452	18.16.2		7 12 „
16	20.659	19.34	81.7	18.59	81.7	.0151	.6453	18.15.5		8 12 „
17	19.973	19.63	82.1	18.57	82.3	.0198	.6451	18.14.9		9 12 „
18	18.258	19.82	82.2	18.54	82.4	.0229	.6448	18.14.4		10 12 „
19	17.229	19.87	83.1	18.59	83.0	.0238	.6453	18.14.5		11 12 „
20	16.817	19.90	84.0	18.56	83.6	.0244	.6450	18.14.4		Noon.
21	16.886	19.81	84.3	18.57	84.0	.0228	.6451	18.14.5		1 12 p. m.
22	17.846	19.61	84.6	18.58	84.8	.0196	.6452	18.14.9		2 12 „
23	18.670	19.55	84.8	18.58	85.0	.0185	.6452	18.15.0		3 12 „
Oct. 6th—Noon.	19.218	19.41	84.4	18.55	85.0	.0161	.6449	18.15.4	H	4 12 „
1	18.395	19.28	83.9	18.45	84.4	.0131	.6438	18.15.3	L	5 12 „
2	17.572	19.22	83.3	18.41	84.2	.0122	.6434	18.15.3	L	6 12 „
3	17.641	18.08	83.0	18.40	83.9	.0108	.6433	18.15.5	L	7 12 „
4	17.572	18.98	82.6	18.39	83.6	.0091	.6432	18.15.5	L	8 12 „
5	17.709	18.93	82.3	18.40	83.3	.0083	.6433	18.15.8	C	9 12 „
6	17.778	18.92	82.0	18.41	83.1	.0082	.6434	18.15.8	C	10 12 „
7	17.778	19.00	82.0	18.44	83.0	.0095	.6437	18.15.6	C	11 12 „
8	17.709	19.00	81.7	18.43	82.8	.0095	.6436	18.15.6	C	Midnight.
9	17.984	19.00	81.0	18.42	82.4	.0095	.6435	18.15.6	H	1 12 a. m.
10	17.778	19.08	80.6	18.43	82.0	.0108	.6436	18.15.6	H	2 12 „
11	17.915	19.16	80.6	18.44	82.0	.0122	.6437	18.15.4	H	3 12 „
12	17.641	19.18	80.5	18.45	81.9	.0124	.6438	18.15.4	H	4 12 „
13	17.298	19.24	80.7	18.49	81.5	.0135	.6443	18.15.4	L	5 12 „
14	18.395	19.21	80.7	18.50	81.4	.0130	.6444	18.15.5	L	6 12 „
15	19.561	19.43	80.6	18.49	81.4	.0165	.6443	18.15.0	L	7 12 „
16	20.385	19.76	80.7	18.49	81.2	.0220	.6443	18.14.3	L	8 12 „
17	19.973	20.02	81.9	18.49	82.0	.0262	.6443	18.13.8	C	9 12 „
18	18.052	20.35	83.1	18.48	82.7	.0316	.6442	18.13.0	C	10 12 „
19	16.474	20.45	84.1	18.50	83.5	.0332	.6444	18.12.9	C	11 12 „
20	15.788	20.35	84.5	18.51	84.0	.0316	.6445	18.13.2	C	Noon.
21	15.720	19.09	84.9	18.51	84.3	.0274	.6445	18.13.8	H	1 12 p. m.
22	16.269	19.70	85.2	18.53	85.0	.0210	.6447	18.14.7	H	2 12 „
23	16.886	19.34	85.2	18.51	85.3	.0151	.6445	18.15.3	H	3 12 „

On the 5th, at about 19h., Dip as obtained by Observation was 19°01'9.

DAILY OBSERVATIONS FROM 7TH TO 9TH OCTOBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Oct. 7th-Noon.	17·503	19.08	85°0	18.48	85°3	8.0107	2.6442	18°15′8	H	4 12 p. m.
1	17.572	18.90	84.2	18.34	84.8	.0079	.6426	18.15.5	L	5 12 „
2	16.612	18.96	83.6	18.33	84.5	.0089	.6425	18.15.3	L	6 12 „
3	16.886	18.86	83.1	18.34	84.0	.0073	.6426	18.15.6	L	7 12 „
4	17.866	18.63	82.9	18.35	83.8	.0035	.6427	18.16.1	L	8 12 „
5	17.778	18.45	82.6	18.36	83.6	.0005	.6428	18.16.6	C	9 12 „
6	18.464	18.12	82.4	18.36	83.4	7.9951	.6428	18.17.2	C	10 12 „
7	18.670	18.89	82.3	18.36	83.3	8.0079	.6428	18.15.6	C	11 12 „
8	19.081	18.46	82.2	18.37	83.2	.0006	.6429	18.16.6	C	Midnight.
9	18.258	18.63	82.0	18.41	83.0	.0035	.6434	18.16.3	H	1 12 a. m.
10	18.258	18.78	81.9	18.41	82.9	.0059	.6434	18.16.0	H	2 12 „
11	17.846	18.81	81.8	18.40	82.8	.0064	.6433	18.16.0	H	3 12 „
12	17.709	18.91	81.8	18.40	82.7	.0081	.6433	18.15.8	H	4 12 „
13	17.846	18.64	81.0	18.42	82.3	.0036	.6435	18.16.4	L	5 12 „
14	18.189	18.68	80.7	18.42	82.0	.0043	.6435	18.16.4	L	6 12 „
15	19.218	18.94	81.0	18.46	81.9	.0085	.6440	18.16.0	L	7 12 „
16	19.767	19.34	81.9	18.49	82.1	.0151	.6443	18.15.2	L	8 12 „
17	19.630	19.86	82.6	18.48	82.7	.0236	.6442	18.14.0	C	9 12 „
18	18.601	20.14	83.6	18.45	83.2	.0280	.6439	18.13.4	C	10 12 „
19	17.366	19.96	84.6	18.42	84.0	.0252	.6435	18.13.6	C	11 12 „
20	16.063	19.95	85.0	18.41	84.8	.0251	.6434	18.13.5	C	Noon.
21	15.651	19.79	85.6	18.40	85.4	.0225	.6433	18 13.9	H	1 12 p. m.
22	16.337	19.73	85.8	18.40	85.7	.0213	.6433	18.14.1	H	2 12 „
23	17.435	19.53	85.7	18.40	86.0	.0181	.6433	18.14.5	H	3 12 „
Oct. 8th-Noon.	17.778	19.41	85.3	18.38	86.0	.0163	.6431	18.14.6	H	4 12 „
1	17.435	19.34	84.4	18.24	85.2	.0151	.6415	18.14.7	L	5 12 „
2	17.366	19.24	83.9	18.27	84.9	.0135	.6418	18.14.2	L	6 12 „
3	17.641	18.97	83.7	18.27	84.4	.0090	.6418	18.15.0	L	7 12 „
4	17.572	18.96	83.5	18.28	84.4	.0089	.6419	18.15.0	L	8 12 „
5	17.709	18.88	83.3	18.31	84.2	.0077	.6423	18.15.4	C	9 12 „
6	17.846	18.85	83.0	18.32	84.1	.0073	.6424	18.15.5	C	10 12 „
7	18.601	18.86	82.1	18.33	83.8	.0074	.6425	18.15.6	C	11 12 „
8	18.395	18.82	81.7	18.33	83.4	.0068	.6425	18.15.6	C	Midnight.
9	18.121	18.88	81.6	18.39	83.0	.0078	.6432	18.15.7	H	1 12 a. m.
10	17.846	18.85	81.6	18.39	83.0	.0074	.6432	18.15.8	H	2 12 „
11	17.778	18.99	81.6	18.39	82.9	.0094	.6432	18.15.4	H	3 12 „
12	17.572	18.91	81.2	18.40	82.6	.0082	.6433	18.15.8	H	4 12 „
13	17.435	19.07	80.9	18.42	82.2	.0107	.6435	18.15.6	L	5 12 „
14	18.052	18.98	80.4	18.42	81.9	.0092	.6435	18.15.7	L	6 12 „
15	18.875	18.93	80.2	18.48	81.6	.0084	.6442	18 16.1	L	7 12 „
16	19.287	19.25	81.0	18.51	81.9	.0136	.6445	18.16.5	L	8 12 „
17	19.150	19.66	82.5	18.50	82.5	.0205	.6444	18.14.6	C	9 12 „
18	17.915	19.98	83.7	18.49	83.1	.0255	.6443	18.13.8	C	10 12 „
19	16.337	20.21	84.6	18.49	84.1	.0292	.6443	18.13.4	C	11 12 „
20	15.240	20.14	85.2	18.45	85.0	.0280	.6439	18.13.4	C	Noon.
21	15.034	19.99	85.8	18.41	85.1	.0256	.6434	18.13.4	H	1 12 p. m.
22	15.445	19.82	86.0	18.41	86.0	.0241	.6434	18.13.7	H	2 12 „
23	16.337	19.71	86.4	18.38	86.5	.0223	.6431	18.13.8	H	3 12 „
Oct. 9th-Noon.	17.160	19.53	86.1	18.28	86.7	.0182	.6420	18.14.0	H	4 12 „
1	17.778	19.40	85.5	18.24	86.2	.0161	.6416	18.14.0	L	5 12 „
2	17.709	19.30	85.0	18.16	85.9	.0145	.6407	18.13.8	L	6 12 „
3	17.503	19.21	84.7	18.14	85.4	.0130	.6405	18.14.0	L	7 12 „
4	17.846	19.15	84.4	18.14	85.2	.0120	.6405	18.14.1	L	8 12 „
5	17.984	18.96	84.0	18.15	85.0	.0089	.6406	18.14.5	C	9 12 „
6	17.984	19.01	84.0	18.16	84.9	.0097	.6407	18.14.5	C	10 12 „
7	17.984	19.10	83.9	18.26	84.7	.0111	.6418	18.14.8	C	11 12 „
8	17.709	19.19	83.8	18.29	84.7	.0127	.6421	18.14.6	C	Midnight.
9	17.984	18.87	82.0	18.28	83.4	.0075	.6420	18.15.3	H	1 12 a. m.
10	17.709	18.74	80.8	18.28	82.7	.0052	.6420	18.15.6	H	2 12 „
11	17.503	18.92	80.7	18.29	82.3	.0083	.6421	18.15.3	H	3 12 „

On the 8th, at about 19h., Dip as obtained by Observation was 19°09′0.

DAILY OBSERVATIONS FROM 9TH TO 12TH OCTOBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
OCT. 9TH—12	17·366	18.96	80°8	18.37	82°2	8.0089	2.6430	18°15′5	H	4 12 a. m.
13	17.641	19.05	80.3	18.41	82.0	.0103	.6434	18.15.5	L	5 12 „
14	17.846	18.97	80.3	18.40	81.7	.0091	.6436	18.15.6	L	6 12 „
15	18.670	19.00	80.5	18.39	81.5	.0095	.6432	18.15.5	L	7 12 „
16	19.630	19.31	81.2	18.41	81.8	.0146	.6434	18.14.8	L	8 12 „
17	19.561	19.57	82.1	18.45	82.3	.0188	.6439	18.14.5	C	9 12 „
18	18.807	19.83	83.4	18.44	83.0	.0230	.6438	18.13.9	C	10 12 „
19	17.435	20.04	84.5	18.43	84.0	.0266	.6437	18.13.5	C	11 12 „
20	15.445	20.04	85.1	18.40	84.9	.0266	.6433	18.13.3	C	Noon.
21	15.926	19.86	85.1	18.38	85.0	.0236	.6431	18.13.6	H	1 12 p. m.
22	16.269	19.72	85.0	18.39	85.2	.0214	.6432	18.13.9	H	2 12 „
23	16.886	19.75	85.5	18.39	85.7	.0218	.6432	18.13.8	H	3 12 „
OCT. 11TH-Noon.	18.601	19.70	86.4	18.48	87.2	.0210	.6442	18.14.5	H	4 12 „
1	17.915	19.45	85.6	18.42	86.8	.0169	.6435	18.14.7	H	5 12 „
2	17.846	19.36	84.8	18.35	86.0	.0154	.6427	18.14.6	L	6 12 „
3	17.641	19.29	84.3	18.34	85.6	.0142	.6426	18.14.7	L	7 12 „
4	17.778	19.08	84.0	18.38	85.2	.0108	.6431	18.15.4	L	8 12 „
5	17.709	19.03	83.6	18.40	84.9	.0100	.6433	18.15.5	C	9 12 „
6	17.846	18.99	83.1	18.42	84.6	.0094	.6435	18.15.7	C	10 12 „
7	17.915	18.99	82.5	18.41	84.2	.0094	.6434	18.15.7	C	11 12 „
8	18.189	18.98	81.6	18.42	83.9	.0092	.6435	18.15.7	C	Midnight.
9	18.121	18.92	81.1	18.40	83.4	.0082	.6433	18.15.8	H	1 12 a. m.
10	18.189	18.91	81.2	18.40	83.1	.0080	.6433	18.15.8	H	2 12 „
11	18.189	19.08	81.6	18.46	83.0	.0108	.6440	18.15.8	H	3 12 „
12	17.915	18.97	81.1	18.48	82.9	.0091	.6442	18.16.0	H	4 12 „
13	17.915	18.86	80.0	18.42	82.2	.0073	.6435	18.16.0	L	5 12 „
14	18.258	18.81	79.7	18.40	81.7	.0065	.6433	18.15.9	L	6 12 „
15	18.601	19.02	79.7	18.40	81.3	.0098	.6433	18.15.5	L	7 12 „
16	18.807	19.29	80.7	18.41	81.6	.0142	.6434	18.15.0	L	8 12 „
17	18.670	19.59	81.7	18.43	82.1	.0191	.6436	18.14.4	C	9 12 „
18	17.915	19.92	83.0	18.47	82.7	.0246	.6441	18.13.8	C	10 12 „
19	17.641	19.95	84.0	18.48	83.5	.0250	.6442	18.13.9	C	11 12 „
20	16.749	20.04	85.0	18.49	84.5	.0266	.6443	18.13.7	C	Noon.
21	16.680	20.04	86.0	18.46	85.1	.0266	.6440	18.13.6	H	1 12 p. m.
22	17.160	19.91	86.4	18.48	85.9	.0245	.6442	18.13.9	H	2 12 „
23	17.846	19.73	86.0	18.41	86.1	.0214	.6434	18.14.0	H	3 12 „
OCT. 12TH-Noon.	18.052	19.60	85.6	18.38	86.0	.0194	.6431	18.14.2	H	4 12 „
1	17.984	19.16	85.3	18.31	85.2	.0121	.6423	18.14.8	L	5 12 „
2	17.778	19.27	83.7	18.29	84.7	.0137	.6421	18.14.5	L	6 12 „
3	17.984	19.13	83.2	18.29	84.3	.0117	.6421	18.14.7	L	7 12 „
4	18.121	19.14	82.9	18.27	83.7	.0118	.6419	18.14.7	L	8 12 „
5	17.915	19.03	82.8	18.28	83.6	.0099	.6420	18.15.0	C	9 12 „
6	18.052	19.00	82.2	18.30	83.2	.0095	.6422	18.15.1	C	10 12 „
7	18.052	18.92	81.7	18.30	83.0	.0081	.6422	18.15.4	C	11 12 „
8	18.258	19.03	81.0	18.32	82.8	.0099	.6424	18.15.2	C	Midnight.
9	17.984	19.04	81.0	18.38	82.7	.0101	.6431	18.15.4	H	1 12 a. m.
10	17.915	19.11	81.1	18.37	82.5	.0113	.6430	18.15.3	H	2 12 „
11	18.052	19.03	80.5	18.36	82.1	.0099	.6429	18.15.4	H	3 12 „
12	17.984	19.00	80.1	18.36	82.0	.0095	.6429	18.15.4	H	4 12 „
13	17.915	19.13	80.0	18.40	81.6	.0116	.6433	18.15.2	L	5 12 „
14	18.189	19.15	80.0	18.39	81.3	.0119	.6432	18.15.2	L	6 12 „
15	19.356	19.16	80.2	18.39	81.2	.0120	.6432	18.15.2	L	7 12 „
16	19.699	19.37	80.4	18.37	81.1	.0155	.6430	18.14.7	L	8 12 „
17	18.258	19.51	80.6	18.40	81.6	.0178	.6433	18.14.5	C	9 12 „
18	17.846	19.77	80.9	18.40	81.7	.0221	.6433	18.13.9	C	10 12 „
19	16.406	20.08	81.8	18.41	82.0	.0273	.6434	18.13.3	C	11 12 „
20	16.337	20.15	83.0	18.45	82.7	.0285	.6438	18.13.2	C	Noon.
21	16.406	20.00	84.0	18.46	83.8	.0260	.6440	18.13.7	H	1 12 p. m.
22	16.955	19.74	85.2	18.48	84.7	.0217	.6442	18.14.3	H	2 12 „
23	17.846	19.55	85.2	18.49	85.0	.0184	.6443	18.14.9	H	3 12 „

At about 20h., on this day the Deflection Observations were taken.
On the 12th, at about 19h., the Dip Observed was 19°02′2.

DAILY OBSERVATIONS FROM 13TH TO 15TH OCTOBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
OCT. 13TH-Noon	18'189	19.46	84°8	18.47	85°1	8.0171.	2.6441	18°14'9	H	4 12 p. m.
1	17.641	19.37	83.9	18.37	84.4	.0156	.6430	18.14.6	L	5 12 „
2	17.641	19.31	83.0	18.33	83.8	.0146	.6425	18.14.5	L	6 12 „
3	17.709	19.16	82.5	18.33	83.4	.0122	.6425	18.14.9	L	7 12 „
4	17.984	19.08	82.1	18.33	83.1	.0108	.6425	18.15.1	L	8 12 „
5	17.984	19.06	81.8	18.34	82.9	.0106	.6426	18.15.1	C	9 12 „
6	18.121	19.01	80.9	18.34	82.7	.0096	.6426	18.15.2	C	10 12 „
7	18.292	18.97	80.6	18.33	82.1	.0091	.6425	18.15.3	C	11 12 „
8	18.464	18.98	80.1	18.33	82.0	.0092	.6425	18.15.3	C	Midnight.
9	18.532	19.04	79.9	18.35	81.7	.0101	.6427	18.15.3	H	1 12 a. m.
10	18.121	19.12	80.3	18.35	81.6	.0115	.6427	18.15.1	H	2 12 „
11	18.258	19.08	80.4	18.35	81.6	.0108	.6427	18.15.2	H	3 12 „
12	17.984	19.08	80.0	18.35	81.4	.0108	.6427	18.15.2	H	4 12 „
13	17.984	19.01	79.6	18.39	81.2	.0096	.6432	18.15.5	L	5 12 „
14	18.532	19.17	79.4	18.38	81.0	.0123	.6431	18.15.1	L	6 12 „
15	19.128	19.18	79.4	18.36	80.6	.0125	.6429	18.15.1	L	7 12 „
16	18.875	19.48	79.8	18.35	80.7	.0174	.6428	18.14.4	L	8 12 „
17	17.709	19.72	80.0	18.37	81.0	.0213	.6430	18.14.0	C	9 12 „
18	16.474	20.10	80.6	18.35	81.3	.0276	.6428	18.13.1	C	10 12 „
19	16.131	20.35	82.0	18.39	82.0	.0316	.6432	18.12.7	C	11 12 „
20	15.994	20.32	82.9	18.43	82.7	.0312	.6436	18.12.9	C	Noon.
21	15.857	20.15	83.4	18.44	83.1	.0268	.6437	18.13.5	H	1 12 p. m.
22	16.680	19.94	84.0	18.45	83.7	.0250	.6438	18.13.7	H	2 12 „
23	17.915	19.86	84.5	18.46	84.0	.0235	.6440	18.14.0	H	3 12 „
OCT. 14TH-Noon.	18.532	19.78	84.2	18.46	84.5	.0223	.6440	18.14.2	H	4 12 „
1	18.121	19.61	83.6	18.38	83.8	.0196	.6431	18.14.1	L	5 12 „
2	17.709	19.46	83.2	18.36	83.7	.0172	.6429	18.14.5	L	6 12 „
3	17.641	19.38	83.0	18.36	83.5	.0157	.6429	18.14.6	L	7 12 „
4	17.641	19.16	81.3	18.31	81.7	.0121	.6423	18.14.8	L	8 12 „
5	17.778	19.09	80.7	18.33	81.0	.0110	.6425	18.15.1	C	9 12 „
6	17.915	19.18	80.7	18.35	81.0	.0125	.6427	18.15.0	C	10 12 „
7	18.327	19.06	80.4	18.47	81.0	.0105	.6441	18.15.8	C	11 12 „
8	18.601	19.10	80.0	18.39	80.9	.0111	.6432	18.15.4	C	Midnight.
9	18.532	19.09	79.7	18.39	80.4	.0110	.6432	18.15.4	H	1 12 a. m.
10	18.395	19.15	79.7	18.39	80.4	.0120	.6432	18.15.2	H	2 12 „
11	18.395	19.09	79.8	18.41	80.4	.0110	.6434	18.15.4	H	3 12 „
12	18.327	19.09	80.0	18.42	80.4	.0110	.6435	18.15.5	H	4 12 „
13	17.984	19.09	80.0	18.46	80.5	.0110	.6440	18.15.7	L	5 12 „
14	18.121	19.14	79.9	18.47	80.5	.0118	.6441	18.15.5	L	6 12 „
15	18.738	19.29	80.0	18.47	80.5	.0142	.6441	18.15.3	L	7 12 „
16	18.189	19.65	80.9	18.47	80.8	.0202	.6441	18.14.5	L	8 12 „
17	17.435	20.07	82.2	18.49	81.9	.0272	.6443	18.13.7	C	9 12 „
18	17.435	20.15	83.2	18.53	82.5	.0284	.6447	18.13.8	C	10 12 „
19	16.474	20.38	84.0	18.51	83.1	.0322	.6445	18.14.4	C	11 12 „
20	15.514	20.46	85.3	18.53	84.0	.0335	.6447	18.14.3	C	Noon.
21	15.857	20.23	85.5	18.55	84.5	.0297	.6449	18.13.6	H	1 12 p. m.
22	16.817	19.94	85.4	18.55	84.9	.0250	.6449	18.14.2	H	2 12 „
23	17.709	19.45	85.3	18.54	84.9	.0171	.6448	18.15.2	H	3 12 „
OCT. 15TH-Noon.	18.395	19.22	84.0	18.51	84.4	.0131	.6445	18.15.6	H	4 12 „
1	17.709	19.20	83.2	18.45	83.6	.0128	.6438	18.15.3	L	5 12 „
2	17.641	18.95	82.5	18.45	83.2	.0087	.6438	18.15.8	L	6 12 „
3	17.984	18.71	82.1	18.44	83.0	.0049	.6437	18.16.3	L	7 12 „
4	17.984	18.53	82.1	18.44	82.7	.0020	.6437	18.16.7	L	8 12 „
5	17.984	18.41	82.0	18.48	82.7	.0000	.6442	18.17.2	C	9 12 „
6	18.189	18.39	81.9	18.48	82.7	7.9997	.6442	18.17.2	C	10 12 „
7	18.670	18.26	81.5	18.48	82.5	.9976	.6442	18.17.5	C	11 12 „
8	18.807	18.33	81.2	18.49	82.5	.9988	.6443	18.17.3	C	Midnight.
9	19.013	18.41	80.9	18.47	82.2	8.0000	.6441	18.17.1	H	1 12 a. m.
10	18.258	18.43	80.6	18.47	82.0	.0003	.6441	18.17.1	H	2 12 „
11	18.052	18.56	80.6	18.47	81.8	.0024	.6441	18.16.8	H	3 12 „

DAILY OBSERVATIONS FROM 15TH TO 19TH OCTOBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
Oct. 15th—12	17'572	18.65	80°7	18.47	81°8	8.0039	2.6441	18°16'6	H	4 12 a. m.
13	17.778	18.62	80.7	18.50	81.6	.0035	.6444	18.16.7	L	5 12 „
14	17.709	18.80	80.5	18.49	81.4	.0064	.6443	18.16.4	L	6 12 „
15	17.984	18.98	80.8	18.50	81.4	.0093	.6444	18.16.0	L	7 12 „
16	17.778	19.28	81.6	18.50	81.6	.0141	.6444	18.15.4	L	8 12 „
17	17.572	19.75	83.0	18.54	82.4	.0220	.6448	18.14.5	C	9 12 „
18	16.817	19.94	84.5	18.57	83.5	.0250	.6452	18.14.3	C	10 12 „
19	16.337	19.99	85.5	18.59	84.6	.0259	.6454	18.14.2	C	11 12 „
20	16.063	19.93	86.0	18.58	85.1	.0249	.6453	18.14.3	C	Noon.
21	16.337	19.85	86.9	18.58	86.0	.0236	.6453	18.14.5	H	1 12 p. m.
22	17.160	19.69	87.3	18.59	87.0	.0209	.6454	18.14.9	H	2 12 „
23	17.984	19.58	87.5	18.59	87.4	.0191	.6454	18.15.1	H	3 12 „
Oct. 18th-Noon.	18.670	18.85	86.4	18.24	86.8	.0071	.6415	18.15.2	L	4 12 „
1	18.258	18.64	85.7	18.22	86.3	.0038	.6413	18.15.5	L	5 12 „
2	18.395	18.14	84.9	18.22	85.8	7.9956	.6413	18.16.5	L	6 12 „
3	18.601	18.30	84.5	18.22	85.6	.9982	.6413	18.16.3	L	7 12 „
4	18.327	18.39	84.1	18.20	85.0	.9997	.6411	18.15.9	L	8 12 „
5	18.395	18.23	83.7	18.23	84.9	.9970	.6414	18.16.5	C	9 12 „
6	18.052	18.55	83.5	18.22	84.6	8.0023	.6413	18.15.7	C	10 12 „
7	18.395	18.57	83.1	18.27	84.1	.0026	.6419	18.15.9	C	11 12 „
8	18.121	18.87	83.0	18.29	84.0	.0074	.6421	18.15.4	C	Midnight.
9	18.327	18.84	82.7	18.31	83.7	.0070	.6423	18.15.5	H	1 12 a. m.
10	18.327	18.80	82.2	18.30	83.4	.0064	.6422	18.15.6	H	2 12 „
11	18.189	18.71	82.1	18.31	83.2	.0049	.6423	18.15.7	H	3 12 „
12	17.435	18.62	82.0	18.30	83.0	.0034	.6422	18.16.0	H	4 12 „
13	17.435	18.72	82.0	18.34	83.0	.0050	.6426	18.15.8	L	5 12 „
14	17.984	18.71	82.0	18.34	82.8	.0049	.6426	18.15.8	L	6 12 „
15	19.493	18.66	82.3	18.38	82.8	.0041	.6431	18.16.2	L	7 12 „
16	20.728	18.80	82.9	18.39	82.9	.0064	.6432	18.16.0	L	8 12 „
17	20.453	19.05	84.0	18.42	83.6	.0103	.6435	18.15.6	C	9 12 „
18	19.767	19.10	85.0	18.45	84.5	.0111	.6438	18.15.6	C	10 12 „
19	18.670	19.47	86.0	18.46	85.2	.0173	.6440	18.14.9	C	11 12 „
20	17.778	19.43	86.0	18.47	85.5	.0167	.6441	18.14.9	C	Noon.
21	17.778	19.29	86.1	18.48	85.9	.0142	.6442	18.15.4	H	1 12 p. m.
22	18.258	18.99	86.2	18.48	86.1	.0094	.6442	18.16.0	H	2 12 „
23	18.532	18.94	86.1	18.50	86.5	.0086	.6444	18.16.0	H	3 12 „
Oct. 19th-Noon.	18.464	18.85	85.6	18.45	86.5	.0071	.6438	18.16.1	H	4 12 „
1	18.121	18.71	85.0	18.35	85.8	.0048	.6427	18.15.9	L	5 12 „
2	17.984	18.62	84.5	18.31	85.4	.0033	.6423	18.16.0	L	6 12 „
3	18.258	18.51	84.1	18.31	85.3	.0015	.6423	18.16.1	L	7 12 „
4	18.327	18.20	82.0	18.24	83.9	7.9965	.6415	18.16.6	L	8 12 „
5	18.327	18.13	81.6	18.25	83.4	.9953	.6416	18.16.7	C	9 12 „
6	18.258	18.34	82.0	18.27	83.0	.9986	.6419	18.16.4	C	10 12 „
7	18.155	18.41	82.0	18.26	82.9	.9998	.6418	18.16.2	C	11 12 „
8	18.121	18.53	82.0	18.27	82.9	8.0018	.6419	18.16.0	C	Midnight.
9	17.915	18.64	81.9	18.27	82.8	.0036	.6419	18.15.8	H	1 12 a. m.
10	17.915	18.63	81.9	18.28	82.8	.0035	.6420	18.15.8	H	2 12 „
11	17.641	18.66	81.7	18.28	82.7	.0040	.6420	18.15.8	H	3 12 „
12	17.641	18.65	81.4	18.28	82.5	.0038	.6420	18.15.8	H	4 12 „
13	17.572	18.66	81.2	18.27	82.3	.0040	.6419	18.15.8	L	5 12 „
14	17.298	18.66	81.3	18.31	82.3	.0040	.6423	18.15.9	L	6 12 „
15	18.052	18.83	81.5	18.34	82.1	.0068	.6426	18.15.6	L	7 12 „
16	19.013	19.15	82.3	18.29	82.3	.0119	.6421	18.14.7	L	8 12 „
17	19.630	19.45	83.5	18.31	83.0	.0167	.6423	18.14.2	C	9 12 „
18	19.287	19.58	84.0	18.31	83.6	.0189	.6423	18.13.9	C	10 12 „
19	18.258	19.67	84.9	18.28	84.0	.0204	.6420	18.13.7	C	11 12 „
20	17.641	19.55	85.2	18.32	84.7	.0184	.6424	18.14.2	C	Noon.
21	17.778	19.34	85.6	18.34	85.0	.0150	.6426	18.14.5	H	1 12 p. m.
22	18.875	19.02	85.9	18.35	85.6	.0098	.6427	18.15.3	H	2 12 „
23	19.013	19.01	85.8	18.33	86.0	.0096	.6425	18.15.2	H	3 12 „

On the 15th, at about 19h., the Observed Dip was 19°12'8.
On the 15th, at about 20h., the Deflection Observations were taken.
On the 19th, at about 19h., the Observed Dip was 19°10'0.

DAILY OBSERVATIONS FROM 20TH TO 22ND OCTOBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
OCT. 20TH-Noon.	18'738	18.87	85°1	18.28	86°0	8.0074	2.6420	18°15'4	H	4 12 p. m.
1	18.189	18.77	84.5	18.22	85.5	.0058	.6413	18.15.2	L	5 12 „
2	17.984	18.55	84.0	18.21	85.0	.0022	.6412	18.15.7	L	6 12 „
3	17.778	18.44	83.6	18.20	84.6	.0004	.6411	18.15.9	L	7 12 „
4	18.052	18.35	83.2	18.23	84.2	7.9989	.6414	18.16.2	L	8 12 „
5	17.984	18.53	82.9	18.23	84.0	8.0018	.6414	18.15.2	C	9 12 „
6	18.189	18.47	82.6	18.26	83.9	.0008	.6418	18.16.1	C	10 12 „
7	18.189	18.49	82.1	18.25	83.6	.0011	.6416	18.16.0	C	11 12 „
8	18.429	18.44	81.8	18.24	83.2	.0004	.6415	18.16.1	C	Midnight.
9	18.121	18.00	81.5	18.24	83.0	7.9932	.6415	18.17.0	H	1 12 a. m.
10	17.984	19.68	81.4	18.24	82.9	8.0043	.6415	18.15.6	H	2 12 „
11	18.052	19.66	81.4	18.23	82.6	.0040	.6414	18.15.6	H	3 12 „
12	17.846	18.64	81.2	18.24	82.5	.0037	.6415	18.15.6	H	4 12 „
13	17.984	18.57	80.6	18.22	82.3	.0025	.6413	18.15.6	L	5 12 „
14	17.984	18.60	80.3	18.28	82.0	.0030	.6420	18.15.9	L	6 12 „
15	18.601	18.71	80.9	18.28	82.0	.0048	.6420	18.15.6	L	7 12 „
16	19.767	18.93	81.1	18.28	82.0	.0083	.6420	18.15.3	L	8 12 „
17	19.356	19.26	82.4	18.32	82.5	.0138	.6424	18.14.7	C	9 12 „
18	18.875	19.44	83.5	18.33	83.2	.0166	.6425	18.14.3	C	10 12 „
19	18.189	19.80	85.1	18.36	84.3	.0226	.6429	18.13.7	C	11 12 „
20	17.915	19.96	86.5	18.37	85.4	.0254	.6430	18.13.4	C	Noon.
21	18.258	19.68	86.7	18.37	85.8	.0206	.6430	18.14.0	H	1 12 p. m.
22	18.464	19.44	87.0	18.38	86.4	.0166	.6431	18.14.5	H	2 12 „
23	18.944	19.28	86.9	18.35	86.8	.0141	.6427	18.14.8	H	3 12 „
OCT. 21ST-Noon.	19.013	19.03	86.4	18.32	86.9	.0099	.6424	18.15.1	H	4 12 „
1	18.327	18.78	85.5	18.23	86.1	.0059	.6414	18.15.2	L	5 12 „
2	18.052	18.75	85.0	18.21	85.8	.0055	.6412	18.15.2	L	6 12 „
3	18.052	18.56	84.5	18.21	85.4	.0024	.6412	18.15.7	L	7 12 „
4	18.327	18.63	84.0	18.17	84.6	.0036	.6408	18.15.3	L	8 12 „
5	17.915	18.55	83.9	18.17	84.5	.0023	.6408	18.15.5	C	9 12 „
6	17.915	18.66	83.9	18.18	84.4	.0040	.6409	18.15.3	C	10 12 „
7	18.121	18.72	83.7	18.18	84.1	.0050	.6409	18.15.1	C	11 12 „
8	18.121	18.79	83.4	18.19	84.0	.0061	.6410	18.15.1	C	Midnight.
9	18.121	18.88	83.4	18.22	84.0	.0076	.6413	18.15.0	H	1 12 a. m.
10	18.189	18.77	83.0	18.22	83.9	.0058	.6413	18.15.2	H	2 12 „
11	18.052	18.63	82.5	18.22	83.5	.0036	.6413	18.15.5	H	3 12 „
12	17.778	18.58	82.2	18.21	83.3	.0027	.6412	18.15.6	H	4 12 „
13	17.572	18.73	82.1	18.24	83.0	.0051	.6415	18.15.4	L	5 12 „
14	17.709	18.72	81.9	18.23	82.7	.0050	.6414	18.15.3	L	6 12 „
15	18.807	18.74	81.4	18.22	82.2	.0054	.6413	18.15.3	L	7 12 „
16	19.561	19.04	81.9	18.26	82.5	.0101	.6418	18.14.9	L	8 12 „
17	19.424	19.30	83.1	18.28	83.4	.0144	.6420	18.14.5	C	9 12 „
18	18.327	19.52	84.7	18.31	84.5	.0180	.6423	18.14.1	C	10 12 „
19	17.092	19.64	85.7	18.32	85.8	.0199	.6424	18.13.8	C	11 12 „
20	16.200	19.64	86.5	18.30	86.1	.0199	.6422	18.13.8	C	Noon.
21	16.955	19.43	86.8	18.29	86.4	.0165	.6421	18.14.1	H	1 12 p. m.
22	17.846	19.23	86.8	18.30	87.0	.0132	.6422	18.14.7	H	2 12 „
23	18.189	19.15	86.7	18.23	87.1	.0119	.6424	18.14.4	H	3 12 „
OCT. 22ND-Noon.	18.327	19.09	86.0	18.21	87.0	.0110	.6412	18.14.5	H	4 12 „
1	18.189	19.03	85.3	18.15	86.1	.0099	.6406	18.14.4	L	5 12 „
2	17.915	18.81	84.5	18.12	85.8	.0065	.6402	18.14.6	L	6 12 „
3	17.915	18.79	84.3	18.12	85.2	.0061	.6402	18.14.7	L	7 12 „
4	18.052	18.70	83.9	18.11	84.8	.0047	.6401	18.14.8	L	8 12 „
5	18.189	18.59	83.5	18.12	84.6	.0030	.6402	18.15.1	C	9 12 „
6	13.395	18.65	83.0	18.12	84.3	.0039	.6402	18.15.0	C	10 12 „
7	18.052	18.78	83.0	18.13	84.0	.0060	.6403	18.14.8	C	11 12 „
8	18.532	18.75	82.4	18.12	83.9	.0055	.6402	18.14.7	C	Midnight.
9	18.464	18.72	81.9	18.10	83.2	.0050	.6400	18.14.8	H	1 12 a. m.
10	18.121	18.78	81.8	18.11	83.1	.0060	.6401	18.14.7	H	2 12 „
11	18.189	18.92	81.8	18.11	83.1	.0082	.6401	18.14.5	H	3 12 „

DAILY OBSERVATIONS FROM 22ND TO 25TH OCTOBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Oct. 22nd—12	17·709	18.93	81·8	18.12	83·0	8.0064	2.6402	18°14·7	H	4 12 a. m.
13	17.709	18.82	81.1	18.13	82.6	.0066	.6403	18.14.7	L	5 12 „
14	17.641	18.91	81.0	18.11	82.1	.0081	.6401	18.14.5	L	6 12 „
15	18.395	18.90	81.0	18.12	82.0	.0079	.6402	18.14.5	L	7 12 „
16	19.013	19.33	82.0	18.13	82.2	.0151	.6403	18.13.6	L	8 12 „
17	18.670	19.74	82.9	18.17	82.9	.0216	.6408	18.12.9	C	9 12 „
18	17.709	20.02	84.0	18.18	83.5	.0263	.6409	18.12.4	C	10 12 „
19	16.680	20.09	85.0	18.19	84.1	.0275	.6410	18.12.3	C	11 12 „
20	16.406	19.92	86.0	18.22	85.1	.0247	.6413	18.12.7	C	Noon.
21	16.955	19.67	86.9	18.23	86.0	.0204	.6414	18.13.4	H	1 12 p. m.
22	17.972	19.54	87.2	18.22	86.8	.0184	.6413	18.13.7	H	2 12 „
23	18.258	19.40	87.0	18.21	87.0	.0160	.6412	18.13.9	H	3 12 „
Oct. 23rd-Noon.	18.670	19.17	86.0	18.17	86.9	.0123	.6408	18.14.2	H	4 12 „
1	18.532	18.97	85.0	18.20	86.0	.0091	.6411	18.14.7	L	5 12 „
2	18.121	18.82	84.8	18.08	85.4	.0066	.6398	18.14.6	L	6 12 „
3	18.258	18.79	84.3	18.09	85.0	.0062	.6399	18.14.7	L	7 12 „
4	18.258	18.73	83.9	18.09	84.6	.0052	.6399	18.14.8	L	8 12 „
5	18.052	18.73	83.0	18.07	84.1	.0052	.6397	18.14.7	C	9 12 „
6	18.121	18.89	82.9	18.10	83.9	.0078	.6400	18.14.5	C	10 12 „
7	18.258	18.99	82.9	18.10	83.8	.0094	.6400	18.14.3	C	11 12 „
8	18.670	18.86	82.2	18.11	83.6	.0074	.6401	18.14.6	C	Midnight.
9	18.807	18.97	82.0	18.09	83.1	.0091	.6399	18.14.3	H	1 12 a. m.
10	18.395	19.07	82.0	18.11	83.0	.0106	.6401	18.14.2	H	2 12 „
11	18.875	18.77	81.5	18.13	82.7	.0059	.6403	18.14.8	H	3 12 „
12	18.532	19.05	81.0	18.15	82.2	.0103	.6405	18.14.4	H	4 12 „
13	18.395	18.90	80.7	18.14	82.0	.0079	.6404	18.14.6	L	5 12 „
14	18.121	18.73	80.1	18.10	81.4	.0052	.6400	18.14.8	L	6 12 „
15	19.081	18.67	80.2	18.12	81.2	.0042	.6402	18.15.0	L	7 12 „
16	19.150	18.87	80.9	18.12	81.4	.0065	.6402	18.14.7	L	8 12 „
17	19.630	18.95	82.0	18.16	82.3	.0087	.6407	18.14.6	C	9 12 „
18	18.052	19.03	83.0	18.17	82.7	.0099	.6408	18.14.5	C	10 12 „
19	17.092	19.22	84.0	18.17	83.2	.0131	.6408	18.14.1	C	11 12 „
20	17.572	19.12	85.4	18.20	84.1	.0115	.6411	18.14.3	C	Noon.
21	17.846	19.10	86.7	18.23	85.4	.0112	.6414	18.14.6	H	1 12 p. m.
22	17.984	19.08	87.0	18.24	86.0	.0108	.6415	18.14.7	H	2 12 „
23	18.189	18.96	87.0	18.19	86.4	.0089	.6410	18.14.7	H	3 12 „
Oct. 25th-Noon.	18.464	19.17	86·3	18.25	86.8	[illegible]23	.6416	18.14.5	L	4 12 „
1	18.052	18.87	85.3	18.22	86.1	.0074	.6413	18.15.1	L	5 12 „
2	18.052	18.67	84.1	18.18	85.4	.0042	.6409	18.15.3	L	6 12 „
3	18.052	18.71	83.8	18.17	84.9	.0048	.6408	18.15.1	L	7 12 „
4	18.052	18.64	83.3	18.17	84.2	.0036	.6408	18.15.3	L	8 12 „
5	18.258	18.64	83.0	18.14	83.8	.0036	.6404	18.15.1	C	9 12 „
6	18.258	18.64	82.3	18.14	83.3	.0036	.6404	18.15.1	C	10 12 „
7	18.738	18.46	82.0	18.16	83.0	.0007	.6407	18.15.7	C	11 12 „
8	18.532	18.75	81.5	18.16	82.9	.0054	.6407	18.15.1	C	Midnight.
9	18.670	18.71	81.0	18.17	82.8	.0048	.6408	18.15.1	H	1 12 a. m.
10	18.532	18.77	80.9	18.17	82.4	.0058	.6408	18.15.0	H	2 12 „
11	18.601	18.77	80.6	18.17	82.1	.0058	.6408	18.15.0	H	3 12 „
12	18.327	18.98	80.5	18.17	81.9	.0092	.6408	18.14.6	H	4 12 „
13	18.189	18.83	80.0	18.16	81.4	.0068	.6407	18.14.9	L	5 12 „
14	18.532	18.80	79.9	18.18	81.2	.0064	.6409	18.15.0	L	6 12 „
15	19.013	18.74	80.0	18.15	81.0	.0054	.6405	18.15.0	L	7 12 „
16	19.973	18.90	80.4	18.15	81.0	.0079	.6405	18.14.7	L	8 12 „
17	19.767	19.24	81.5	18.19	81.5	.0133	.6410	18.14.2	C	9 12 „
18	18.875	19.61	83.0	18.23	82.3	.0195	.6414	18.13.4	C	10 12 „
19	18.395	20.02	84.3	18.24	83.3	.0263	.6415	18.12.7	C	11 12 „
20	17.778	17.77	85.1	18.28	84.7	.0224	.6420	18.13.4	C	Noon.
21	17.641	17.73	86.4	18.29	85.6	.0218	.6421	18.13.4	H	1 12 p. m.
22	17.709	17.65	87.1	18.32	86.8	.0205	.6424	18.13.7	H	2 12 „
23	18.189	17.54	87.6	18.31	87.1	.0184	.6423	18.14.1	H	3 12 „

On the 22nd, at about 19h., the Observed Dip was 19·10·3.
On the 23rd, at about 20h., the Deflection Observations were taken.

133492

DAILY OBSERVATIONS FROM 26TH TO 28TH OCTOBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Oct. 26th-Noon.	18·670	19·22	86°6	18.25	86°8	8·0130	2·6416	18°14′4	H	4 12 p. m.
1	18.258	19.10	85.6	18.19	85.7	.0111	.6410	18.14.5	L	5 12 ,,
2	18.121	18·93	84.5	18.15	85.1	.0083	.6405	18.14.7	L	6 12 ,,
3	18.121	18.74	84.0	18.13	84.5	.0053	.6403	18.14.9	L	7 12 ,,
4	18.189	18.71	84·0	18.12	84.1	.0048	·6402	18.14.8	L	8 12 ,,
5	18.601	18.70	82.9	18.15	83.9	.0047	.6405	18.15.0	C	9 12 ,,
6	18.327	18.54	82.3	18.13	83.5	.0021	.6403	18.15.3	C	10 12 ,,
7	18.670	18.66	81.5	18.11	83.0	.0041	·6401	18.15.0	C	11 12 ,,
8	18.601	18.73	81.0	18.12	82.7	.0051	·6402	18.14.8	C	Midnight.
9	18.944	18.76	80.6	18.07	82.4	.0056	.6397	18.14.8	H	1 12 a. m.
10	18.601	18.84	81.3	18.09	82.4	.0069	.6399	18.14.6	H	2 12 ,,
11	18·670	18.91	81·0	18.10	82.1	.0081	.6400	18.14.5	H	3 12 ,,
12	18.670	18·85	80.9	18.11	82.0	.0071	.6401	18.14.6	H	4 12 ,,
13	18.327	18.84	80.9	18.10	81.7	.0069	.6400	18.14.6	L	5 12 ,,
14	18.327	18.87	80.6	18.10	81.1	·0074	.6400	18.14.6	L	6 12 ,,
15	19.081	18.85	80.6	18.11	81.0	.0071	.6401	18.14.6	L	7 12 ,,
16	20.042	19.07	81.0	18.12	81.2	.0107	.6402	18.14.2	L	8 12 ,,
17	19·836	19.43	82.0	18.15	82.0	.0165	.6405	18.13.5	C	9 12 ,,
18	18·738	19.82	83.8	18.16	82.7	.0231	.6407	18.12.8	C	10 12 ,,
19	17.366	20.03	84.6	18.18	83.3	.0264	.6409	18.12.4	C	11 12 ,,
20	16·680	20.10	85.9	18.21	84.4	.0276	.6412	18.12.4	C	Noon.
21	16·749	19.77	86.0	18.18	84.8	.0223	.6409	18.12.9	H	1 12 p. m.
22	16.886	19.53	86.0	18.20	85.3	.0181	.6411	18.13.6	H	2 12 ,,
23	17.641	19.43	86.2	18.22	85.9	.0165	.6413	18.13.8	H	3 12 ,,
Oct. 27th-Noon.	18.052	19·34	86.0	18.22	86·0	.0150	.6413	18.14.0	H	4 12 ,,
1	18.258	19.21	85.1	18.16	85.4	.0129	.6407	18.14.1	L	5 12 ,,
2	18.189	19.20	84.5	18.13	84.9	.0128	.6403	18.13.9	L	6 12 ,,
3	18.327	19.08	84.0	18.11	84·2	.0108	.6401	18.14.1	L	7 12 ,,
4	18.327	18.96	83.5	18.09	83.8	.0089	.6999	18.14.3	L	8 12 ,,
5	18.189	18.95	83.5	18.10	83·8	.0087	.6400	18.14.3	C	9 12 ,,
6	18.189	18.89	83.1	18.11	83.5	·0077	.6401	18.14.5	C	10 12 ,,
7	18·327	18.95	83.0	18.11	83.5	.0087	.6401	18.14.3	C	11 12 ,,
8	18.189	18.91	82.2	18.10	83.0	.0081	.6400	18.14.5	C	Midnight.
9	18.327	18.90	81.8	18.08	82.7	.0079	.6398	18.14.5	H	1 12 a. m.
10	18·258	19.04	81.5	18.07	82.4	.0101	.6397	18.14.1	H	2 12 ,,
11	18.395	18.96	80.9	18.06	82.0	.0089	.6396	18.14.4	H	3 12 ,,
12	17.984	19.02	80.7	18.06	81.9	.0098	.6396	18.14.1	H	4 12 ,,
13	18·464	19.00	80·4	18.08	81.4	.0095	.6398	18.14.2	L	5 12 ,,
14	17·778	19.06	80.4	18.07	81.3	.0105	.6397	18.14.1	L	6 12 ,,
15	17.846	19.04	80.4	18.05	81.0	·0101	.6395	18.14.0	L	7 12 ,,
16	18.738	19.40	81.0	18.06	81.2	.0160	.6396	18.13.3	L	8 12 ,,
17	18·807	19·70	82.0	18.07	82.0	.0209	.6397	18.12.7	C	9 12 ,,
18	18·601	19.98	83.8	18.10	82·8	.0257	.6400	18.12.1	C	10 12 ,,
19	17.846	20.04	84.6	18.10	83.4	.0266	·6400	18.12.0	C	11 12 ,,
20	17.778	20.04	85.0	18.13	84.0	.0266	.6403	18.12.1	C	Noon.
21	17.641	19.89	85.4	18.13	84.3	·0242	.6403	18·12.5	H	1 12 p. m.
22	17·229	19.75	85.5	18.14	84.8	·0219	.6404	18.12.7	H	2 12 ,,
23	17.846	19·64	85.4	18.15	85.0	.0201	.6405	18.13.1	H	3 12 ,,
Oct. 28th-Noon.	18.464	19.45	84.9	18.15	85.1	.0168	.6405	18.13.5	H	4 12 ,,
1	18·327	19.24	84.1	18.18	84·4	.0134	.6409	18·14.1	L	5 12 ,,
2	17·984	19.16	83.3	18.10	84.0	.0121	.6400	18.13.9	L	6 12 ,,
3	18.189	18.96	83.1	18.07	83.6	.0089	.6397	18.14.2	L	7 12 ,,
4	18.258	19.01	83.0	18.05	83.4	.0096	.6395	18.14.0	L	8 12 ,,
5	18.395	18.95	82.8	18.07	83.3	.0087	.6397	18.14.2	C	9 12 ,,
6	18.464	18.91	82.5	18.05	83·0	.0081	.6395	18.14.3	C	10 12 ,,
7	18.807	18.98	81.9	18.06	82.7	.0092	.6396	18.14.2	C	11 12 ,,
8	18·601	19.12	82·0	18.06	82.7	.0115	.6396	18.13.9	C	Midnight.
9	18.532	19.21	82.0	18.08	82.7	.0130	.6398	18.13.8	H	1 12 a. m.
10	18.327	19.09	81.7	18.07	82·4	·0110	.6397	18.14.0	H	2 12 ,,
11	17.984	19.15	81.4	18.06	82·0	.0120	.6396	18.13.8	H	3 12 ,,

On the 27th, at about 19h., the Observed Dip was 19·01·9.

DAILY OBSERVATIONS FROM 28TH TO 30TH OCTOBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Oct. 28th—12	17·709	19.11	80°9	18.06	81°9	8.0113	2.6396	18°14′0	H	4 12 a. m.
13	17.641	19.22	80.5	18.04	81.3	.0131	.6393	18.13.5	L	5 12 „
14	17·092	19.35	80.5	18.03	81.1	.0152	.6392	18.13.2	L	6 12 „
15	17.503	19.30	80.7	18.03	81.0	.0144	.6392	18.13.3	L	7 12 „
16	17.709	19.61	81.0	18.04	81.2	.0195	.6393	18.12.6	L	8 12 „
17	77.435	20.13	82.2	18.06	82.0	.0281	.6396	18.11.8	C	9 12 „
18	18.121	20.11	83.9	18.10	82.9	.0278	.6400	18.12.1	C	10 12 „
19	17.641	20.29	85.0	18.14	83.9	.0307	.6404	18.11.6	C	11 21 „
20	17.641	20.11	85.0	18.15	84.3	.0278	.6405	18.12.1	C	Noon.
21	17.641	19·86	85.3	18.17	84.6	.0237	.6408	18.12.7	H	1 12 p. m.
22	17.435	19.77	85.9	18.20	85.2	.0222	.6411	18.13.0	H	2 12 „
23	18.258	19.58	86.0	18.21	85.8	.0189	.6412	18.13.4	H	3 12 „
Oct. 29th-Noon.	18.464	19.28	85.2	18.20	85.4	.0140	.6411	18.14.1	H	4 12 „
1	18.258	19.09	84.1	18.14	84.6	.0110	.6404	18.14.2	L	5 12 „
2	18.601	18.64	83.4	18.11	84.3	.0036	.6401	18.15.0	L	6 12 „
3	18.601	18.34	83.1	18.10	83.9	7.9987	.6400	18.15.6	L	7 12 „
4	18.601	18.28	82.9	18.09	83.5	.9977	.6399	18.15.8	L	8 12 „
5	18.875	18.31	82.5	18.10	83.3	.9982	.6400	18.15.8	C	9 12 „
6	19.013	18.30	82.0	18.09	83.0	.9981	.6399	18.15.8	C	10 12 „
7	19.150	18.57	81.8	18.08	82.6	8.0024	.6398	18.15.2	C	11 12 „
8	19.356	18.53	81.5	18.08	82.5	.0018	.6398	18.15.2	C	Midnight.
9	19.081	18.33	81.0	18.06	82.0	7.9985	.6396	18.15.5	H	1 12 a. m.
10	18.258	18.92	80.9	18.06	82.0	8.0082	.6396	18.14.4	H	2 12 „
11	18.258	18.58	80.8	18.06	81.8	.0026	.6396	18.15.0	H	3 12 „
12	18.258	18.63	80.4	18.06	81.4	.0034	.6396	18.15.0	H	4 12 „
13	18.121	18.49	79.5	18.05	81.0	.0011	.6395	18.15.2	L	5 12 „
14	17.709	18.77	79.1	18.04	80.6	.0058	.6393	18.14.4	L	6 12 „
15	18.464	18.71	79.9	18.05	80.4	.0048	.6395	18.14.6	L	7 12 „
16	18.807	19.32	80.6	18.06	80.6	.0147	.6396	18.13.4	L	8 12 „
17	18.875	19.73	82.0	18.14	81.5	.0214	.6404	18.12.9	C	9 12 „
18	18.738	19.78	83.4	18.16	82.4	.0223	.6407	18.12.9	C	10 12 „
19	18.601	19.69	84.5	18.19	83.2	.0208	.6410	18.13.2	C	11 12 „
20	19·287	19.40	85.1	18.22	84.0	.0160	.6413	18.13.9	C	Noon.
21	19.561	19.20	85.1	18.23	84.2	.0128	.6414	18.14.3	H	1 12 p. m.
22	19.218	19.10	85.2	18.24	84.6	.0112	.6415	18.14.7	H	2 12 „
23	18.738	18.93	85.4	18.24	85.2	.0084	.6415	18.15.1	H	3 12 „
Oct. 30th-Noon.	19.561	18.39	85.0	18.23	85.1	7.9995	.6414	18.16.0	H	4 12 „
1	18.875	18.07	83.8	18.15	84.2	.9944	.6405	18.16.5	L	5 12 „
2	18.670	18.29	83.0	18.11	83.8	.9980	.6401	18.15.8	L	6 12 „
3	18.258	18.38	82.7	18.12	83.3	.9993	.6402	18.15.6	L	7 12 „
4	18.121	18.49	82.5	18.11	83.0	8.0011	.6401	18.15.4	L	8 12 „
5	18.189	18.48	82.5	18.12	83.0	.0009	.6402	18.15.4	C	9 12 „
6	18.944	18.77	81.9	18.13	82.8	.0058	.6403	18.14.8	C	10 12 „
7	19.013	18.56	81.5	18.13	82.5	.0022	.6403	18.15.3	C	11 12 „
8	19.013	18.55	81.3	18.13	82.1	.0021	.6403	18.15.3	C	Midnight.
9	18.670	18.51	81.1	18.14	82.0	.0015	.6404	18.15.3	H	1 12 a. m.
10	18.052	18.96	80.7	18.13	81.8	.0089	.6403	18.14.4	H	2 12 „
11	18.807	18.75	80.2	18.13	81.3	.0054	.6403	18.14.9	H	3 12 „
12	18.944	18.53	79.7	18.12	81.0	.0018	.6402	18.15.2	H	4 12 „
13	18.189	18.54	79.3	18.11	80.9	.0020	.6401	18.15.2	L	5 12 „
14	17·641	18.70	79.4	18.10	80.6	.0047	.6400	18.14.8	L	6 12 „
15	18.258	18.57	79.7	18.10	80.1	.0024	.6400	18.15.2	L	7 12 „
16	18.601	19.01	80.6	18.12	80.5	.0097	.6402	18.14.3	L	8 12 „
17	19·356	19.35	82.0	18.20	81.5	.0152	.6411	18.13.9	C	9 12 „
18	19.150	19·59	83.5	18.22	82.2	.0192	.6413	18.13.5	C	10 12 „
19	18.464	19.69	83.9	18.22	82.9	.0208	.6413	18.13.3	C	11 12 „
20	18.670	19.64	84.1	18.26	83.3	.0200	.6418	18.13.6	C	Noon.
21	19.424	19.41	84.6	18.26	83.8	.0162	.6418	18.14.1	H	1 12 p. m.
22	19.287	19.28	84.9	18.28	84.2	.0140	.6420	18.14.5	H	2 12 „
23	19.356	19.13	84.8	18.28	84.6	.0116	.6420	18.14.8	H	3 12 „

On the 29th, the Observed Dip was 19·06·2.
On the 30th, at about 20h., the Deflection Observations were taken.

DAILY OBSERVATIONS FROM 1ST TO 3RD NOVEMBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
Nov. 1ST—Noon.	18·464	19.18	85·0	18.57	85·1	8.0124	2.7852	19°10′6	C	4 12 p. m.
1	18.121	18.86	83.8	18.58	84.2	.0072	.7853	19.11.3	C	5 12 „
2	17.984	18.70	83.0	18.54	83.7	.0046	.7848	19.11.3	C	6 12 „
3	18.189	18.61	82.3	18.58	83.3	.0031	.7853	19.11.8	H	7 12 „
4	18.052	18.61	82.0	18.57	83.0	.0031	.7852	19.11.8	H	8 12 „
5	17.984	18.63	81.9	18.59	82.9	.0034	.7854	19.11.8	H	9 12 „
6	18.258	18.70	81.8	18.59	82.7	.0046	.7854	19.11.5	H	10 12 „
7	18.601	18.66	81.0	18.62	82.3	.0040	.7857	19.11.9	L	11 12 „
8	18.738	18.67	80.8	18.62	82.0	.0042	.7857	19.11.9	L	Midnight.
9	18.807	18.51	80.0	18.63	81.5	.0015	.7858	19.12.3	C	1 12 a. m.
10	19.013	18.53	79.9	18.63	81.2	.0018	.7858	19.12.2	C	2 12 „
11	18.395	18.63	79.7	18.64	81.1	.0034	.7859	19.12.1	C	3 12 „
12	18.601	18.65	79.4	18.64	80.9	.0037	.7859	19.11.9	C	4 12 „
13	18.395	18.69	78.9	18.60	80.5	.0044	.7855	19.11.8	H	5 12 „
14	17.572	18.76	78.8	18.59	80.2	.0056	.7854	19.11.4	H	6 12 „
15	17.641	18.91	79.2	18.58	80.1	.0080	.7853	19.11.2	H	7 12 „
16	17.092	19.41	80.0	18.59	80.3	.0162	.7854	19.10.1	H	8 12 „
17	17.435	19.67	81.6	18.58	81.0	.0204	.7853	19.07.6	L	9 12 „
18	17.572	19.88	83.0	18.59	82.1	.0237	.7854	19.09.1	L	10 12 „
19	17·298	20.04	84.2	18.62	83.0	.0266	.7857	19.08.9	L	11 12 „
20	17.984	19.87	84.6	18.63	83.8	.0236	.7858	19.09.3	L	Noon.
21	18.944	19.63	85.4	18.65	84.9	.0197	.7860	19.09.8	C	1 12 p. m.
22	18.875	19.33	85.2	18.61	85.0	.0148	.7856	19.10.3	C	2 12 „
23	18.189	19.30	85.0	18.59	85.5	.0144	.7854	19.10.4	C	3 12 „
Nov. 2ND-Noon.	17.778	19.42	84.5	18.57	85.3	.0164	.7852	19.10.1	C	4 12 „
1	17.503	19.17	83.6	18.54	84.3	.0123	.7848	19.10.4	H	5 12 „
2	17.366	19.32	82.6	18.51	83.4	.0148	.7845	19.09.9	H	6 12 „
3	17.503	18.96	82.0	18.53	83.0	.0089	.7847	19.10.8	H	7 12 „
4	17.915	18.93	81.7	18.56	82.7	.0084	.7851	19.11.1	H	8 12 „
5	18.052	18.87	81.7	18.55	82.4	.0075	.7850	19.11.1	L	9 12 „
6	18.327	18.86	81.4	18.57	82.3	.0073	.7852	19.11.2	L	10 12 „
7	18.327	18.90	80.7	18.58	82.0	.0079	.7853	19.11.2	L	11 12 „
8	18.944	19.01	80.4	18.57	81.5	.0097	.7852	19.10.8	L	Midnight.
9	18.121	19.02	80.3	18.56	81.2	.0098	.7851	19.10.8	H	1 12 a. m.
10	18.532	18.80	79.6	18.56	81.2	.0063	.7851	19.11.3	H	2 12 „
11	18.258	18.87	79.4	18.57	80.9	.0075	.7852	19.11.1	H	3 12 „
12	17.984	18.95	79.2	18.60	80.5	.0087	.7855	19.11.1	C	4 12 „
13	18.086	19.06	79.0	18.59	80.4	.0105	.7854	19.10.9	C	5 12 „
14	17.709	19.09	78.4	18.58	80.0	.0110	.7853	19.10.8	C	6 12 „
15	18.121	19.29	78.3	18.60	79.7	.0142	.7855	19.10.5	C	7 12 „
16	18.052	19.59	79.8	18.62	80.1	.0191	.7857	19.09.9	C	8 12 „
17	17.984	19.97	81.0	18.62	80.5	.0255	.7857	19.09.0	L	9 12 „
18	18.327	20.12	82.0	18.63	81.0	.0280	.7858	19.08.0	L	10 12 „
19	17.915	20.38	82.9	18.64	81.9	.0322	.7859	19.08.2	L	11 12 „
20	17.984	20.31	84.3	18.67	83.0	.0311	.7863	19.08.5	L	Noon.
21	18.464	20.93	84.9	18.67	83.3	.0249	.7863	19.09.2	C	1 12 p. m.
* 22	18.532	20.69	84.9	19.65	84.2	.0207	.7791	19.07.1	C	2 12 „
23	17.984	20.56	84.8	19.52	84.5	.0186	.7777	19.06.7	C	3 12 „
Nov. 3RD-Noon.	17.778	19.48	84.2	19.54	84.1	.0174	.7779	19.07.0	C	4 12 „
1	17.984	19.06	83.4	19.62	83.9	.0105	.7788	19.08.2	H	5 12 „
2	18.189	18.54	82.6	19.74	83.3	.0020	.7801	19.09.8	H	6 12 „
3	18.464	18.59	82.0	19.81	82.9	.0028	.7809	19.10.0	H	7 12 „
4	18.258	18.61	81.9	19.87	82.4	.0031	.7816	19.10.3	H	8 12 „
5	18.464	18.71	81.6	20.01	82.0	.0047	.7830	19.10.6	L	9 12 „
6	18.601	18.78	81.2	20.10	81.9	.0059	.7840	19.10.9	L	10 12 „
7	18.670	18.74	80.5	20.15	81.6	.0053	.7845	19.11.2	L	11 12 „
8	18.944	18.92	80.0	20.18	81.4	.0082	.7849	19.11.0	L	Midnight.
9	18.327	18.92	79.4	20.12	81.0	.0082	.7842	19.10.7	C	1 12 a. m.
10	18.327	18.72	79.0	20.18	80.6	.0050	.7849	19.11.3	C	2 12 „
11	18.327	18.82	78.8	20.18	80.2	.0066	.7849	19.11.1	C	3 12 „

* The Vertical Force Instrument was re-adjusted at this hour, and fresh Observations commenced.

DAILY OBSERVATIONS FROM 3RD TO 5TH NOVEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. — Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. — Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. — In English Units.	Absolute Vertical Force. — In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Nov. 3rd—12	18'532	18.70	78°3	20.35	79°9	8.0046	2.7868	19°12'0	C	4 12 a.m
13	18.052	18.78	78.2	20.37	79.8	.0059	.7870	19.12.0	H	5 12 „
14	17.641	18.76	77.6	20.40	79.2	.0056	.7873	19.12.1	H	6 12 „
15	18.601	18.97	77.5	20.45	78.9	.0090	.7878	19.11.9	H	7 12 „
16	18.944	19.43	79.0	20.22	79.4	.0166	.7853	19.10.0	H	8 12 „
17	18.670	19.68	80.7	19.95	80.0	.0187	.7823	19.08.5	L	9 12 „
18	18.464	19.93	82.0	19.75	80.9	.0249	.7801	19.06.8	L	10 12 „
19	17.846	20.03	83.3	19.89	82.0	.0265	.7816	19.07.3	L	11 12 „
20	18.052	20.08	83.9	19.92	82.6	.0273	.7819	19.07.3	L	Noon.
21	18.875	19.32	84.1	20.70	83.3	.0148	.7926	19.13.0	C	1 12 p.m
22	19.013	19.21	84.2	20.61	84.0	.0130	.7916	19.12.9	C	2 12 „
23	18.464	18.94	83.9	20.52	84.0	.0085	.7906	19.13.0	C	3 12 „
Nov. 4th—Noon.	18.807	18.55	83.0	20.45	83.4	.0021	.7878	19.12.8	C	4 12 „
1	18.121	18.66	82.1	20.33	83.2	.0039	.7865	19.12.1	H	5 12 „
2	18.052	18.64	81.6	20.48	82.7	.0036	.7882	19.12.5	H	6 12 „
3	17.778	18.65	81.6	20.57	82.4	.0037	.7892	19.13.1	H	7 12 „
4	17.984	18.55	81.5	20.66	82.1	.0021	.7902	19.13.7	H	8 12 „
5	18.189	18.50	81.0	20.77	81.8	.0013	.7914	19.14.4	L	9 12 „
6	19.013	18.39	80.1	21.04	81.4	7.9995	.7943	19.15.7	L	10 12 „
7	19.630	18.62	80.0	20.98	81.2	8.0032	.7937	19.15.1	L	11 12 „
8	19.699	18.26	80.4	20.98	81.0	7.9974	.7937	19.15.9	L	Midnight.
9	19.699	18.39	80.4	21.02	81.0	.9995	.7941	19.15.6	C	1 12 a.m
10	19.150	18.37	80.1	20.99	80.9	.9992	.7938	19.15.6	C	2 12 „
11	19.013	18.45	80.0	21.00	80.9	8.0005	.7939	19.15.5	C	3 12 „
12	19.013	18.35	79.9	21.08	80.5	7.9989	.7948	19.16.0	C	4 12 „
13	18.738	18.40	79.6	21.07	80.4	.9997	.7947	19.15.9	H	5 12 „
14	18.327	18.46	78.6	20.94	80.0	8.0007	.7932	19.15.1	H	6 12 „
15	18.532	18.73	78.7	21.00	80.0	.0051	.7939	19.14.8	H	7 12 „
16	18.327	18.94	79.0	21.00	80.0	.0085	.7939	19.14.3	H	8 12 „
17	18.464	19.22	80.1	20.78	80.0	.0131	.7915	19.12.9	L	9 12 „
18	18.327	19.58	81.7	20.61	81.0	.0189	.7896	19.11.3	L	10 12 „
19	17.984	19.83	82.9	20.45	81.8	.0233	.7878	19.10.1	L	11 12 „
20	18.052	19.70	83.7	20.55	82.4	.0209	.7889	19.10.8	L	Noon.
21	19.013	19.43	84.1	20.62	83.2	.0166	.7897	19.11.7	C	1 12 p.m.
22	18.738	19.11	84.5	20.53	83.8	.0113	.7887	19.12.1	C	2 12 „
23	19.150	18.87	84.1	20.39	84.0	.0074	.7872	19.11.9	C	3 12 „
Nov. 5th—Noon.	18.944	18.80	83.4	20.41	83.8	.0062	.7874	19.12.1	C	4 12 „
1	18.670	18.63	82.6	20.07	83.0	.0034	.7837	19.11.2	H	5 12 „
2	18.121	18.61	82.1	20.07	83.0	.0031	.7837	19.11.2	H	6 12 „
3	18.532	18.58	82.1	20.21	82.9	.0026	.7852	19.11.7	H	7 12 „
4	19.013	18.42	82.1	20.31	82.9	.0000	.7863	19.12.6	H	8 12 „
5	19.561	18.67	81.9	20.27	82.4	.0041	.7859	19.11.9	L	9 12 „
6	19.150	18.33	81.4	20.36	82.3	7.9985	.7867	19.12.8	L	10 12 „
7	18.875	18.66	81.3	20.39	82.2	8.0040	.7872	19.12.4	L	11 12 „
8	19.287	18.56	81.2	20.44	82.0	.0023	.7877	19.12.8	L	Midnight.
9	19.081	18.63	81.6	20.46	81.9	.0034	.7880	19.12.8	C	1 12 a.m.
10	18.807	18.67	82.0	20.46	82.0	.0041	.7880	19.12.7	C	2 12 „
11	18.601	18.69	81.6	20.44	81.9	.0044	.7877	19.12.7	C	3 12 „
12	18.601	18.74	81.3	20.50	81.9	.0052	.7884	19.12.6	C	4 12 „
13	18.121	18.70	81.0	20.48	81.9	.0046	.7882	19.12.5	H	5 12 „
14	18.532	18.66	80.6	20.55	81.5	.0040	.7889	19.13.1	H	6 12 „
15	18.464	18.64	79.3	20.53	80.9	.0036	.7887	19.13.0	H	7 12 „
16	19.081	19.01	79.8	20.53	80.9	.0097	.7887	19.12.2	H	8 12 „
17	18.464	19.40	81.0	20.28	81.0	.0160	.7860	19.10.3	L	9 12 „
18	17.709	19.80	83.2	19.97	82.3	.0225	.7826	19.08.2	L	10 12 „
19	17.641	20.02	84.8	19.90	83.2	.0263	.7818	19.07.3	L	11 12 „
20	18.121	19.84	85.1	20.19	83.7	.0234	.7850	19.09.1	L	Noon.
21	18.807	19.64	85.2	20.28	84.0	.0201	.7860	19.09.8	C	1 12 p.m.
22	18.738	19.46	85.1	20.23	84.5	.0171	.7854	19.10.0	C	2 12 „
23	18.738	19.22	85.1	20.14	84.9	.0132	.7844	19.10.1	C	3 12 „

DAILY OBSERVATIONS FROM 6TH TO 9TH NOVEMBER 1857.

DATE. Göttingen Mean Time 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
Nov. 6TH—Noon.	18'670	18.96	84°0	20.13	84°1	8.0089	2.7843	19°10'6	C	4 12 p. m.
1	18.395	18.90	83.5	20.12	83.9	.0079	.7842	19.10.7	H	5 12 ,,
2	18.258	18.92	83.0	20.19	83.8	.0082	.7850	19.11.1	H	6 12 ,,
3	18.327	18.83	83.0	20.21	83.8	.0067	.7852	19.11.2	H	7 12 ,,
4	18.464	18.73	82.8	20.24	83.4	.0051	.7855	19.11.4	H	8 12 ,,
5	18.327	18.68	82.6	20.29	83.1	.0043	.7861	19.12.0	L	9 12 ,,
6	18.464	18.76	82.6	20.37	83.0	.0056	.7870	19.12.0	L	10 12 ,,
7	18.601	18.79	82.7	20.37	83.0	.0061	.7870	19.12.0	L	11 12 ,,
8	18.670	18.82	82.4	20.38	82.7	.0066	.7871	19.12.0	L	Midnight.
9	18.670	18.82	82.1	20.39	82.6	.0066	.7872	19.12.0	C	1 12 a. m.
10	18.601	18.83	82.0	20.42	82.2	.0067	.7875	19.12.2	C	2 12 ,,
11	18.601	18.81	82.0	20.47	82.0	.0064	.7881	19.12.4	C	3 12 ,,
12	18.601	18.89	82.0	20.46	82.0	.0077	.7880	19.12.2	C	4 12 ,,
13	18.532	18.89	81.6	20.51	82.0	.0077	.7885	19.12.4	H	5 12 ,,
14	17.846	19.03	81.4	20.47	82.0	.0100	.7881	19.11.9	H	6 12 ,,
15	18.395	19.01	81.5	20.42	82.0	.0097	.7875	19.11.7	H	7 12 ,,
16	18.670	19.37	82.6	20.27	82.2	.0155	.7859	19.10.4	H	8 12 ,,
17	18.327	19.78	83.9	20.07	83.0	.0224	.7837	19.08.7	L	9 12 ,,
18	18.258	20.00	84.7	20.06	83.6	.0260	.7836	19.08.1	L	10 12 ,,
19	17.641	20.11	85.8	19.94	84.5	.0278	.7822	19.07.3	L	11 12 ,,
20	18.327	20.09	86.7	19.94	85.4	.0275	.7822	19.07.3	L	Noon.
21	18.464	19.91	87.1	19.97	86.0	.0245	.7826	19.07.8	C	1 12 p. m.
22	18.532	19.81	87.6	20.00	86.7	.0229	.7829	19.08.2	C	2 12 ,,
23	18.738	19.61	87.6	20.01	86.9	.0196	.7830	19.08.7	C	3 12 ,,
Nov. 8TH—Noon.	18.464	19.51	87.8	19.84	88.0	.0180	.7811	19.08.2	H	4 12 ,,
1	18.327	19.27	86.6	19.80	87.3	.0140	.7807	19.08.6	H	5 12 ,,
2	18.258	19.13	85.9	19.82	86.8	.0116	.7809	19.08.9	H	6 12 ,,
3	18.395	18.98	85.4	19.87	86.2	.0092	.7815	19.09.5	H	7 12 ,,
4	18.601	18.88	84.5	19.92	85.5	.0076	.7820	19.09.3	H	8 12 ,,
5	18.464	18.81	84.0	19.95	84.9	.0064	.7823	19.10.2	L	9 12 ,,
6	18.464	18.87	83.7	20.08	84.4	.0074	.7838	19.10.7	L	10 12 ,,
7	18.464	18.90	83.3	20.13	84.3	.0079	.7843	19.10.8	L	11 12 ,,
8	18.258	18.96	83.3	20.15	84.2	.0089	.7845	19.10.7	L	Midnight.
9	18.258	18.96	83.0	20.13	83.8	.0089	.7843	19.10.6	C	1 12 a. m
10	18.189	19.14	83.0	20.17	83.7	.0118	.7848	19.10.4	C	2 12 ,,
11	18.121	19.19	82.8	20.26	83.5	.0126	.7858	19.10.7	C	3 12 ,,
12	17.915	19.13	82.5	20.30	83.2	.0116	.7862	19.11.0	C	4 12 ,,
13	17.915	19.07	82.3	20.35	83.2	.0106	.7867	19.11.3	H	5 12 ,,
14	17.915	19.09	82.1	20.37	83.0	.0109	.7870	19.11.4	H	6 12 ,,
15	18.875	18.91	82.1	20.51	82.9	.0080	.7885	19.12.4	H	7 12 ,,
16	19.013	19.22	82.9	20.49	83.0	.0131	.7883	19.11.6	H	8 12 ,,
17	18.944	19.49	83.9	20.34	83.2	.0177	.7866	19.10.3	L	9 12 ,,
18	18.395	19.65	84.9	20.12	84.0	.0202	.7842	19.09.1	L	10 12 ,,
19	18.258	19.85	85.4	20.03	85.0	.0235	.7832	19.08.2	L	11 12 ,,
20	18.944	19.85	86.8	20.03	86.0	.0235	.7832	19.08.2	L	Noon.
21	19.013	19.64	87.8	20.11	86.7	.0201	.7841	18.09.1	C	1 12 p. m.
22	18.670	19.39	87.9	19.99	87.0	.0160	.7828	19.09.1	C	2 12 ,,
23	18.258	18.97	87.1	19.96	87.0	.0090	.7825	19.09.9	C	3 12 ,,
Nov. 9TH—Noon.	17.641	18.90	86.0	20.05	86.8	.0079	.7834	19.10.4	C	4 12 ,,
1	17.984	18.83	85.0	20.14	86.1	.0067	.7844	19.10.9	H	5 12 ,,
2	18.327	18.74	84.4	20.15	85.6	.0053	.7845	19.11.2	H	6 12 ,,
3	18.327	18.93	84.2	20.19	85.0	.0084	.7850	19.11.1	H	7 12 ,,
4	17.984	18.93	83.9	20.29	84.8	.0084	.7861	19.11.4	H	8 12 ,,
5	18.395	19.15	83.3	20.34	84.0	.0119	.7866	19.11.0	L	9 12 ,,
6	18.327	19.07	82.7	20.40	83.9	.0107	.7873	19.11.5	L	10 12 ,,
7	18.670	18.15	82.4	20.51	83.6	7.9956	.7885	19.13.9	L	11 12 ,,
8	19.561	18.12	82.2	20.38	83.2	.9951	.7871	19.13.4	L	Midnight.
9	21.482	17.05	81.9	20.53	83.0	.9776	.7887	19.16.4	C	1 12 a. m.
10	20.796	17.33	81.2	20.41	82.9	.9823	.7874	19.15.2	C	2 12 ,,
11	18.944	17.39	80.8	20.33	82.6	.9833	.7865	19.14.8	C	3 12 ,,

DAILY OBSERVATIONS FROM 9TH TO 11TH NOVEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.	° ′							° ′		h. m.
Nov. 9th—12	18′189	18.09	80°8	20.47	82°5	7.9947	2.7881	19°13′8	C	4 12 a. m.
13	17.641	18.00	80.8	20.56	82.1	.9932	.7891	19.14.5	H	5 12 „
14	17.915	17.85	80.7	20.58	81.9	.9908	.7893	19.14.9	H	6 12 „
15	18.532	18.07	80.7	20.67	81.7	.9944	.7903	19.14.9	H	7 12 „
16	19.081	18.31	81.4	20.58	81.9	.9983	.7893	19.14.0	H	8 12 „
17	19.013	18.47	82.1	20.44	82.1	8.0009	.7877	19.13.0	L	9 12 „
18	18.875	18.75	83.5	20.32	83.0	.0055	.7864	19.11.8	L	10 12 „
19	18.446	18.75	84.8	20.27	83.8	.0055	.7859	19.11.7	L	11 12 „
20	18.327	18.91	85.9	20.27	85.0	.0081	.7859	19.11.4	L	Noon.
21	17.778	18.84	86.8	20.13	86.0	.0070	.7843	19.10.8	C	1 12 p. m.
22	17.503	18.48	87.6	20.19	87.0	.0011	.7850	19.12.0	C	2 12 „
23	18.288	18.16	87.0	20.19	87.0	7.9958	.7850	19.12.6	C	3 12 „
Nov. 10th—Noon.	18.944	17.94	85.9	20.29	86.2	.9923	.7861	19.13.4	C	4 12 „
1	18.807	18.29	84.8	20.27	85.6	.9980	.7857	19.12.7	H	5 12 „
2	18.601	18.20	83.9	20.30	85.0	.9965	.7862	19.12.9	H	6 12 „
3	18.875	18.11	83.4	20.38	84.2	.9950	.7871	19.13.4	H	7 12 „
4	18.875	18.20	83.0	20.40	83.9	.9965	.7873	19.13.3	H	8 12 „
5	19.013	18.29	82.7	20.45	83.4	.9980	.7878	19.13.4	L	9 12 „
6	18.944	18.37	82.4	20.57	83.1	.9993	.7892	19.13.8	L	10 12 „
7	18.944	18.36	81.9	20.60	82.7	.9991	.7895	19.13.9	L	11 12 „
8	19.013	18.62	81.1	20.65	82.2	8.0033	.7900	19.13.6	L	Midnight.
9	19.047	18.43	80.8	20.59	82.0	.0003	.7894	19.13.7	C	1 12 a. m.
10	19.081	18.44	80.3	20.57	81.6	.0004	.7892	19.13.7	C	2 12 „
11	19.013	18.46	79.9	20.62	81.1	.0007	.7897	19.13.8	C	3 12 „
12	18.464	18.29	79.4	20.69	81.0	7.9980	.7905	19.14.5	C	4 12 „
13	17.846	18.42	79.4	20.74	80.5	8.0000	.7910	19.14.4	H	5 12 „
14	17.366	18.60	79.4	20.73	80.3	.0030	.7909	19.14.0	H	6 12 „
15	17.229	18.77	79.5	20.75	80.0	.0057	.7911	19.13.5	H	7 12 „
16	18.189	18.98	80.1	20.81	80.3	.0092	.7918	19.13.5	H	8 12 „
17	19.013	19.23	81.3	20.76	80.7	.0131	.7913	19.12.8	L	9 12 „
18	19.218	19.56	82.9	20.63	82.7	.0188	.7898	19.11.4	L	10 12 „
19	19.150	19.51	84.3	20.52	82.9	.0180	.7886	19.11.1	L	11 12 „
20	18.875	19.57	85.0	20.43	83.8	.0190	.7876	19.10.6	L	Noon.
21	18.875	19.50	86.0	20.30	85.4	.0178	.7862	19.10.2	C	1 12 p. m.
22	18.807	19.57	86.8	20.23	86.1	.0190	.7854	19.09.7	C	2 12 „
23	18.875	19.40	86.6	20.27	86.2	.0162	.7859	19.10.3	C	3 12 „
Nov. 11th—Noon.	18.944	19.25	85.7	20.24	86.0	.0136	.7855	19.10.5	C	4 12 „
1	18.601	19.06	84.4	20.29	85.1	.0105	.7858	19.11.0	H	5 12 „
2	18.464	19.07	83.1	20.35	84.2	.0107	.7867	19.11.3	H	6 12 „
3	18.532	18.75	82.6	20.45	83.7	.0054	.7878	19.12.4	H	7 12 „
4	18.670	18.12	82.3	.2044	83.0	7.9952	.7877	19.13.7	H	8 12 „
5	19.013	17.52	81.8	20.56	82.5	.9858	.7890	19.15.4	L	9 12 „
6	19.836	17.05	81.2	20.65	82.0	.9776	.7900	19.16.9	L	10 12 „
7	19.973	17.07	80.5	20.79	81.3	.9779	.7915	19.17.5	L	11 12 „
8	19.424	17.93	80.4	20.71	81.1	.9920	.7907	19.15.5	L	Midnight.
9	19.390	17.99	80.2	20.76	81.0	.9930	.7912	19.15.3	C	1 12 a. m.
10	19.561	17.97	80.0	20.80	80.8	.9927	.7917	19.15.6	C	2 12 „
11	19.081	18.11	79.5	20.79	80.4	.9948	.7915	19.15.2	C	3 12 „
12	18.532	18.27	79.4	20.78	80.2	.9996	.7914	19.14.8	C	4 12 „
13	18.601	18.15	79.0	20.88	80.0	.9956	.7925	19.15.5	H	5 12 „
14	17.915	18.41	78.7	20.87	79.6	.9997	.7924	19.14.9	H	6 12 „
15	17.984	18.58	79.0	20.91	79.6	8.0025	.7929	19.14.7	H	7 12 „
16	18.052	18.90	79.1	20.90	79.4	.0079	.7928	19.14.1	H	8 12 „
17	18.395	19.21	80.3	20.87	79.7	.0129	.7924	19.13.2	L	9 12 „
18	18.532	19.48	81.6	20.79	80.4	.0163	.7913	19.12.4	L	10 12 „
19	18.189	19.51	83.2	20.57	81.6	.0178	.7891	19.11.3	L	11 12 „
20	18.121	19.54	84.3	20.47	83.0	.0183	.7880	19.10.9	L	Noon.
21	18.189	19.49	85.1	20.49	83.7	.0195	.7882	19.10.9	C	1 12 p. m.
22	18.258	19.38	85.1	20.47	84.2	.0158	.7880	19.11.1	C	2 12 „
23	18.532	19.24	85.0	20.45	84.5	.0124	.7878	19.11.5	C	3 12 „

DAILY OBSERVATIONS FROM 12TH TO 15TH NOVEMBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
Nov. 12TH-Noon.	18'327	18.72	84°0	20.52	84°0	8.0050	2.7886	19°12'7	C	4 12 p. m.
1	17.641	18.49	83.0	20.51	83.6	.0011	.7885	19.13.5	H	5 12 ,,
2	18.601	18.54	82.3	20.61	83.1	.0019	.7896	19.13.5	H	6 12 ,,
3	18.327	17.96	81.7	20.66	82.7	7.9906	.7901	19.15.2	H	7 12 ,,
4	18.944	18.29	81.7	20.69	82.3	.9978	.7902	19.14.3	H	8 12 ,,
5	18.875	17.90	81.4	20.80	81.8	.9916	.7917	19.15.7	L	9 12 ,,
6	19.836	17.51	80.4	20.87	81.0	.9950	.7924	19.15.5	L	10 12 ,,
7	19.699	18.03	80.1	20.81	81.0	.9936	.7918	19.15.5	L	11 12 ,,
8	19.150	18.45	80.0	20.83	80.9	8.0038	.7920	19.14.3	L	Midnight.
9	19.630	18.37	79.8	20.97	80.9	7.9993	.7935	19.15.5	C	1 12 a. m.
10	19.218	18.93	79.3	20.97	80.7	8.0083	.7935	19.14.4	C	2 12 ,,
11	19.944	18.73	79.0	21.00	80.1	.0050	.7939	19.14.8	C	3 12 ,,
12	19.909	18.53	78.9	20.99	79.8	.0017	.7937	19.15.2	C	4 12 ,,
13	19.327	18.39	78.4	20.98	79.4	7.9995	.7936	19.15.4	H	5 12 ,,
14	17.778	18.46	78.2	20.99	79.0	8.0007	.7937	19.15.4	H	6 12 ,,
15	17.298	18.46	78.4	21.15	79.0	.0007	.7955	19.16.1	H	7 12 ,,
16	18.258	18.82	79.0	21.17	79.0	.0067	.7957	19.15.4	H	8 12 ,,
17	18.258	19.15	80.6	21.13	79.6	.0120	.7953	19.14.5	L	9 12 ,,
18	18.121	19.29	82.5	20.95	81.0	.0142	.7933	19.13.5	L	10 12 ,,
19	18.464	19.36	83.7	20.94	82.0	.0155	.7932	19.13.1	L	11 12 ,,
20	19.561	19.02	84.4	20.99	82.9	.0099	.7937	19.14.2	L	Noon.
21	20.385	19.05	85.5	20.88	84.0	.0103	.7925	16.13.8	C	1 12 p. m.
22	19.424	19.05	85.9	20.80	84.4	.0103	.7917	19.13.4	C	2 12 ,,
23	19.630	18.84	85.8	20.79	84.7	.0069	.7915	19.13.7	C	3 12 ,,
Nov. 13TH-Noon.	19.904	18.69	85.0	20.73	84.4	.0044	.7909	19.13.8	C	4 12 ,,
1	18.944	18.57	83.8	20.66	84.0	.0027	.7901	19.13.6	H	5 12 ,,
2	18.875	18.66	83.0	20.76	83.5	.0040	.7912	19.13.9	H	6 12 ,,
3	19.081	18.64	82.5	20.84	83.0	.0036	.7921	19.14.3	H	7 12 ,,
4	19.013	18.50	81.7	20.87	82.5	.0013	.7924	19.14.8	H	8 12 ,,
5	18.944	18.79	81.5	20.90	82.0	.0050	.7928	19.14.4	L	9 12 ,,
6	18.875	18.66	80.4	21.02	81.4	.0040	.7941	19.15.1	L	10 12 ,,
7	19.013	18.61	79.9	20.98	80.9	.0031	.7936	19.15.0	L	11 12 ,,
8	19.013	18.69	79.9	21.02	80.7	.0044	.7941	19.15.1	L	Midnight.
9	18.464	18.81	79.9	20.98	80.4	.0064	.7936	19.15.6	C	1 12 a. m.
10	18.670	18.79	79.6	21.02	80.3	.0050	.7941	19.14.9	C	2 12 ,,
11	18.670	18.72	79.5	21.08	80.1	.0050	.7947	19.15.2	C	3 12 ,,
12	18.566	18.73	79.1	21.13	80.0	.0050	.7953	19.15.4	C	4 12 ,,
13	18.464	18.80	79.0	21.15	79.9	.0063	.7955	19.15.4	H	5 12 ,,
14	18.502	18.69	79.0	21.11	79.8	.0044	.7950	19.15.5	H	6 12 ,,
15	18.875	18.77	79.0	21.17	79.5	.0050	.7957	16 15.6	H	7 12 ,,
16	19.013	18.90	79.8	21.11	79.7	.0079	.7951	19.15.0	H	8 12 ,,
17	18.875	19.12	80.8	20.96	80.0	.0108	.7934	19.13.9	L	9 12 ,,
18	18.121	19.36	81.9	20.76	80.8	.0155	.7912	19.12.3	L	10 12 ,,
19	17.778	19.67	83.6	20.71	82.0	.0206	.7907	19.11.6	L	11 12 ,,
20	18.327	19.58	84.5	20.72	83.0	.0189	.7908	19.11.8	L	Noon.
21	18.944	19.53	85.4	20.68	84.2	.0101	.7903	19.11.8	C	1 12 p. m.
22	18.738	19.50	86.0	20.66	85.4	.0177	.7901	19.11.7	C	2 12 ,,
23	18.464	19.48	86.5	20.54	86.0	.0163	.7899	19.11.8	C	3 12 ,,
Nov. 15TH-Noon.	19.150	19.34	85.1	20.47	85.0	.0051	.7881	19.11.2	C	4 12 ,,
1	18.601	19.17	83.9	20.50	84.0	.0124	.7884	19.11.7	H	5 12 ,,
2	18.670	19.03	82.9	20.61	83.5	.0099	.7896	19.12.5	H	6 12 ,,
3	18.670	18.86	82.3	20.74	83.0	.0073	.7910	19.13.5	H	7 12 ,,
4	18.944	18.74	81.8	20.76	82.5	.0052	.7912	19.13.7	H	8 12 ,,
5	18.670	18.62	81.2	20.88	82.0	.0034	.7925	19.14.6	L	9 12 ,,
6	18.738	18.81	80.6	20.89	81.4	.0064	.7936	19.14.6	L	10 12 ,,
7	18.944	18.65	79.9	21.01	81.0	.0038	.7940	19.15.1	L	11 12 ,,
8	18.944	18.73	79.7	21.00	80.6	.0050	.7939	19.14.8	L	Midnight.
9	19.047	18.91	80.0	21.03	80.8	.0080	.7942	19.14.6	C	1 12 a. m.
10	19.150	18.75	79.2	21.05	80.2	.0054	.7944	19.15.0	C	2 12 ,,
11	19.150	18.90	78.9	21.08	79.8	.0079	.7947	19.14.9	C	3 12 ,,

DAILY OBSERVATIONS FROM 15TH TO 17TH NOVEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Nov. 15TH—12	19°013	18.80	78°6	20.10	79°6	8.0063	2.7950	19°15′2	C	4 12 a. m.
13	19.081	18.90	78.4	20.16	79.2	.0079	.7956	19.15.2	H	5 12 „
14	18.327	18.94	78.0	20.09	78.9	.0087	.7948	19.14.7	H	6 12 „
15	18.258	18.91	78.0	20.34	78.7	.0080	.7976	19.15.9	H	7 12 „
16	18.807	19.30	78.6	20.34	78.8	.0145	.7976	19.15.0	H	8 12 „
17	18.738	19.71	80.2	20.11	79.2	.0211	.7951	19.13.3	L	9 12 „
18	18.395	19.91	81.8	20.86	80.2	.0244	.7923	19.11.8	L	10 12 „
19	17.778	20.08	83.2	20.73	81.5	.0271	.7909	19.10.8	L	11 12 „
20	18.121	20.10	84.3	20.82	82.2	.0276	.7919	19.11.1	L	Noon.
21	18.601	19.87	85.0	20.80	83.2	.0238	.7917	19.11.6	C	1 12 p. m.
22	18.464	19.67	85.5	20.72	84.0	.0206	.7908	19.11.6	C	2 12 „
23	18.464	19.49	85.4	20.71	84.2	.0175	.7907	16.12.0	C	3 12 „
Nov. 16TH-Noon.	18.807	19.23	84.6	20.72	84.1	.0132	.7908	19.12.6	H	4 12 „
1	19.081	18.84	83.0	20.84	83.4	.0069	.7921	19.13.9	C	5 12 „
2	18.944	18.68	82.2	20.89	82.9	.0043	.7927	19.14.6	H	6 12 „
3	18.738	18.63	81.9	20.92	82.2	.0035	.7930	19.14.7	C	7 12 „
4	18.601	18.68	81.7	20.96	82.0	.0043	.7935	19.14.9	C	8 12 „
5	18.601	19.38	80.9	20.81	81.5	.0156	.7918	19.12.6	L	9 12 „
6	18.944	18.59	80.0	20.97	81.0	.0028	.7936	19.15.0	L	10 12 „
7	19.013	18.40	79.6	21.02	80.6	7.9998	.7941	19.15.6	L	11 12 „
8	18.601	18.66	80.0	21.01	80.4	8.0040	.7940	19.15.1	L	Midnight.
9	18.258	19.37	79.9	20.98	80.7	.0155	.7937	19.13.4	C	1 12 a. m.
10	18.944	18.79	79.9	21.12	80.3	.0061	.7952	19.15.2	C	2 12 „
11	18.395	18.73	79.4	21.08	80.0	.0051	.7948	19.15.2	C	3 12 „
12	18.327	18.86	79.0	21.14	79.8	.0072	.7954	19.15.2	C	4 12 „
13	17.915	18.75	78.6	21.13	79.4	.0054	.7953	19.15.4	H	5 12 „
14	18.189	18.94	78.3	21.43	79.2	.0085	.7986	19.16.1	H	6 12 „
15	18.258	18.99	78.3	21.43	79.0	.0093	.7986	19.16.1	H	7 12 „
16	19.081	19.15	79.0	21.43	79.1	.0119	.7986	19.15.7	H	8 12 „
17	18.327	19.38	80.4	21.31	79.7	.0156	.7973	19.14.7	L	9 12 „
18	18.395	19.55	81.9	21.14	80.7	.0184	.7954	19.13.8	L	10 12 „
19	18.601	19.52	83.3	21.10	81.6	.0180	.7950	19.13.7	L	11 12 „
20	19.356	19.42	84.6	21.07	83.0	.0164	.7947	19.13.8	L	Noon.
21	19.356	19.27	85.9	20.99	84.3	.0140	.7938	19.13.7	C	1 12 p. m.
22	19.630	19.30	86.6	20.77	85.5	.0144	.7914	19.12.7	C	2 12 „
23	20.042	18.84	87.0	20.81	86.0	.0069	.7918	19.13.8	C	3 12 „
Nov. 17TH-Noon.	19.630	18.52	85.9	21.01	85.1	.0017	.7940	19.15.3	C	4 12 „
1	19.493	18.24	84.2	21.12	84.1	7.9971	.7952	19.16.4	H	5 12 „
2	20.453	18.02	83.0	21.31	83.6	.9935	.7973	19.17.6	H	6 12 „
3	20.316	17.84	82.2	21.39	83.0	.9906	.7982	19.18.3	H	7 12 „
4	19.630	17.90	81.8	21.38	82.5	.9916	.7981	19.18.2	H	8 12 „
5	19.904	17.80	81.1	21.48	81.8	.9900	.7992	19.18.8	L	9 12 „
6	19.904	17.95	80.6	21.52	81.4	.9924	.7996	19.18.7	L	10 12 „
7	19.699	18.54	80.0	21.43	80.9	8.0020	.7986	19.17.0	L	11 12 „
8	19.081	18.52	80.0	21.53	80.9	.0017	.7997	19.17.5	L	Midnight.
9	18.395	18.89	80.0	21.47	80.8	.0077	.7991	19.16.5	C	1 12 a. m.
10	17.709	18.68	79.9	21.51	80.5	.0043	.7995	19.17.2	C	2 12 „
11	17.503	18.54	79.2	21.56	80.2	.0020	.8001	19.17.6	C	3 12 „
12	16.508	18.58	79.0	21.56	80.0	.0027	.8001	19.17.5	C	4 12 „
13	15.720	18.88	78.9	21.66	79.9	.0076	.8012	19.17.3	H	5 12 „
14	16.406	18.59	78.4	21.78	79.5	.0028	.8025	19.18.5	H	6 12 „
15	16.612	18.57	78.5	21.83	79.3	.0025	.8030	19.18.7	H	7 12 „
16	17.709	18.54	79.5	21.98	79.4	.0020	.8047	19.19.5	H	8 12 „
17	19.424	18.43	80.5	21.84	79.8	7.9993	.8031	19.19.2	H	9 12 „
18	20.110	18.31	81.8	21.71	80.4	.9973	.8017	19.19.0	H	10 12 „
19	19.493	18.21	83.1	21.60	81.6	.9957	.8005	19.18.6	C	11 12 „
20	20.247	18.30	84.6	21.58	82.8	.9972	.8003	19.18.4	C	Noon.,
21	21.006	18.02	85.6	21.52	83.9	.9935	.7996	19.18.5	N	1 12 p. m.
22	20.659	17.70	86.0	21.34	84.8	.9884	.7976	19.18.5	N	2 12 „
23	19.836	17.66	86.0	21.33	85.0	.9878	.7975	19.18.5	N	3 12 „

DAILY OBSERVATIONS FROM 18TH TO 20TH NOVEMBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
Nov. 18TH-Noon.	20'042	17.44	85°0	21.50	84°0	7.9841	2.7994	19°19'7	N	4 12 p. m.
1	19.767	17.50	83.6	21.48	83.4	.9850	.7992	19.19.4	H	5 12 „
2	20.247	17.01	82.4	21.56	82.7	.9770	.8001	19.20.9	H	6 12 „
3	20.042	16.99	81.8	21.55	82.2	.9767	.8000	19.20.9	H	7 12 „
4	20.865	17.97	81.3	21.65	81.8	.9927	.8011	19.19.2	H	8 12 „
5	20.453	17.28	80.6	21.71	81.1	.9815	.8017	19.21.0	L	9 12 „
6	20.453	17.32	79.9	21.74	80.6	.9821	.8020	19.21.0	L	10 12 „
7	20.659	17.54	79.4	21.81	80.2	.9857	.8028	19.20.8	L	11 12 „
8	20.728	17.55	79.0	21.88	79.7	.9859	.8036	19.21.1	L	Midnight.
9	20.865	17.86	78.8	21.90	79.5	.9909	.8038	19.20.6	C	1 12 a. m.
10	20.385	17.91	78.6	21.92	79.1	.9917	.8040	19.20.6	C	2 12 „
11	20.042	17.97	78.5	21.84	79.0	.9927	.8031	19.20.0	C	3 12 „
12	19.767	18.00	78.1	21.87	78.9	.9932	.8035	19.20.2	C	4 12 „
13	19.424	18.09	77.9	21.95	78.5	.9947	.8043	19.20.2	H	5 12 „
14	19.013	18.20	77.5	21.95	78.2	.9965	.8043	19.20.0	H	6 12 „
15	19.356	18.40	77.4	22.12	78.0	.9997	.8062	19.20.2	H	7 12 „
16	19.699	18.65	78.0	22.08	78.0	8.0038	.8058	19.19.7	H	8 12 „
17	19.218	19.07	79.3	21.87	78.4	.0107	.8035	19.17.9	L	9 12 „
18	18.601	19.34	81.0	21.66	79.5	.0150	.8012	19.16.3	L	10 12 „
19	17.641	19.53	82.7	21.58	80.6	.0181	.8003	19.15.7	L	11 12 „
20	18.327	19.46	83.3	21.63	81.6	.0170	.8009	19.16.0	L	Noon.
21	18.464	19.31	83.8	21.57	82.3	.0145	.8002	19.15.9	N	1 12 p. m.
22	18.327	19.24	84.7	21.49	83.0	.0133	.7993	19.15.9	N	2 12 „
23	18.395	19.00	84.3	21.50	83.2	.0095	.7994	19.16.3	N	3 12 „
Nov. 19TH-Noon.	18.464	18.88	83.5	21.57	83.0	.0075	.8002	19.16.0	C	4 12 „
1	18.258	18.77	82.7	21.60	82.5	.0058	.8005	19.17.3	H	5 12 „
2	18.944	18.61	81.6	21.72	81.9	.0031	.8018	19.18.2	H	6 12 „
3	18.944	18.42	80.9	21.77	81.0	.0001	.8023	19.18.8	H	7 12 „
4	18.738	18.44	80.5	21.81	80.9	.0003	.8028	19.19.0	H	8 12 „
5	18.670	18.47	80.3	21.87	80.6	.0009	.8034	19.19.1	L	9 12 „
6	19.218	18.41	79.6	21.92	80.1	7.9998	.8040	19.19.5	L	10 12 „
7	19.356	18.40	78.8	21.94	79.5	.9997	.8042	19.19.5	L	11 12 „
8	19.081	18.65	79.0	21.98	79.4	8.0038	.8046	19.19.2	L	Midnight.
9	19.630	18.51	78.4	21.97	79.0	.0016	.8045	19.19.4	C	1 12 a. m.
10	19.218	18.52	78.0	21.96	78.5	.0017	.8044	19.19.3	C	2 12 „
11	18.807	18.54	78.0	22.00	78.3	.0019	.8049	19.19.5	C	3 12 „
12	18.670	18.58	77.7	22.04	78.0	.0025	.8053	19.19.6	C	4 12 „
13	18.189	18.78	77.3	22.10	78.0	.0058	.8060	19.19.4	H	5 12 „
14	18.395	18.92	77.1	22.14	77.9	.0083	.8064	19.19.3	H	6 12 „
15	18.395	18.86	77.2	22.15	77.8	.0073	.8065	19.19.5	H	7 12 „
16	18.601	19.03	77.8	22.18	77.8	.0099	.8068	19.19.2	H	8 12 „
17	18.532	19.34	79.0	22.09	78.0	.0151	.8058	19.18.2	L	9 12 „
18	18.258	19.66	80.5	21.84	78.8	.0204	.8031	19.16.5	L	10 12 „
19	17.572	19.83	81.5	21.74	79.9	.0230	.8020	19.15.7	L	11 12 „
20	18.121	19.81	82.6	21.73	81.0	.0227	.8019	19.15.6	L	Noon.
21	18.944	19.85	83.5	21.73	82.1	.0234	.8019	19.15.6	C	1 12 p. m.
22	19.218	19.75	84.5	21.64	83.1	.0218	.8009	19.15.3	C	2 12 „
23	19.150	19.59	85.0	21.58	84.0	.0181	.8002	19.15.6	C	3 12 „
Nov. 20TH-Noon.	18.708	19.30	84.0	21.64	83.1	.0145	.8009	19.16.2	C	4 12 „
1	18.464	19.14	82.4	21.72	82.2	.0118	.8018	19.17.0	H	5 12 „
2	18.738	18.89	81.2	21.79	81.5	.0077	.8025	19.17.9	H	6 12 „
3	18.670	18.81	80.8	21.83	81.0	.0064	.8030	19.18.3	H	7 12 „
4	18.532	18.80	80.4	21.85	80.4	.0063	.8032	19.18.3	H	8 12 „
5	18.670	18.69	79.7	21.90	80.0	.0044	.8038	19.18.9	L	9 12 „
6	18.738	18.76	78.7	21.96	79.3	.0056	.8044	19.18.8	L	10 12 „
7	19.081	18.72	78.0	21.95	78.9	.0050	.8043	19.18.9	L	11 12 „
8	19.287	18.77	77.9	22.02	78.8	.0058	.8051	19.19.1	L	Midnight.
9	19.081	18.83	77.9	22.06	78.7	.0067	.8055	19.19.2	C	1 12 a. m.
10	18.875	18.87	77.9	22.05	78.3	.0075	.8054	19.19.0	C	2 12 „
11	19.013	18.80	77.4	22.06	78.1	.0063	.8055	19.19.3	C	3 12 „

DAILY OBSERVATIONS FROM 20TH TO 23RD NOVEMBER 1857.

DATE. Gottingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
Nov. 20TH—12	18·604	19.69	77°0	22.07	78°0	8.0044	2.8056	19°19·2	C	4 12 p. m.
13	18.465	19.73	76.4	22.17	78.0	.0050	.8067	19.19.8	H	5 12 „
14	18.121	19.95	76.3	22.21	77.8	.0087	.8072	19.14.4	H	6 12 „
15	18.121	19.98	76.3	22.11	77.0	.0091	.8061	19.19.0	H	7 12 „
16	18.464	19.19	77.1	22.16	77.1	.0126	.8066	19.18.7	H	8 12 „
17	18.738	19.56	78.4	21.97	77.5	.0187	.8045	19.17.2	L	9 12 „
18	18.121	19.78	79.9	21.76	78.1	.0222	.8032	19.16.2	L	10 12 „
19	17.778	20.07	81.2	21.70	79.2	.0271	.8016	19.15.0	L	11 12 „
20	18.327	19.96	82.0	21.75	80.0	.0253	.8021	19.15.4	L	Noon.
21	19.013	19.93	83.0	21.74	81.0	.0247	.8020	19.15.4	C	1 12 p. m.
22	19.218	19.77	83.9	21.62	82.2	.0222	.8087	19.15.3	C	2 12 „
23	18.944	19.65	84.1	21.46	82.0	.0202	.7989	19.14.8	C	3 12 „
Nov. 22ND—Noon.	18.532	19.28	82.8	21.67	82.4	.0140	.8012	19.16.5	H	4 12 „
1	18.464	18.92	81.2	21.25	81.5	.0083	.7966	19.15.5	H	5 12 „
2	18.944	18.72	80.0	21.43	80.4	.0050	.7986	19.16.6	H	6 12 „
3	18.875	18.77	79.4	21.48	79.9	.0058	.7991	19.16.7	H	7 12 „
4	18.738	18.81	79.0	21.56	79.4	.0064	.8000	19.17.1	H	8 12 „
5	18.532	18.76	78.4	21.63	79.0	.0056	.8008	19.17.4	L	9 72 „
6	18.875	18.67	77.4	21.65	78.4	.0042	.8010	19.17.8	L	10 12 „
7	19.013	18.90	77.2	21.66	78.0	.0079	.8011	19.17.3	L	11 12 „
8	18.807	18.92	77.0	21.78	77.5	.0083	.8024	19.17.8	L	Midnight.
9	18.395	18.89	76.8	21.85	77.4	.0077	.8032	19.17.1	N	1 12 a. m.
10	18.464	19.01	76.6	21.94	77.4	.0096	.8042	19.18.2	N	2 12 „
11	18.875	19.09	76.5	22.01	77.1	.0109	.8050	19.18.8	N	3 12 „
12	18.635	18.97	76.3	22.03	76.9	.0091	.8052	19.19.0	N	4 12 „
13	18.189	18.94	75.8	22.04	76.4	.0085	.8053	19.19.1	H	5 12 „
14	18·464	18.97	75.6	22.09	76.2	.0091	.8058	19.19.3	H	6 12 „
15	18.121	19.11	75.6	22.16	76.0	.0113	.8066	19.19.0	H	7 12 „
16	18.052	19.52	76.6	22.16	76.1	0.183	.8066	19.18.1	H	8 12 „
17	18.327	19.91	78.2	21.96	77.0	.0244	.8044	19.16.5	L	9 12 „
18	17.503	20.32	79.7	21.78	77.8	.0322	.8024	19.14.6	L	10 12 „
19	16.955	20.23	81.1	91.63	79.2	.0298	.8008	19.14.3	L	11 12 „
20	18.738	19.76	81.9	21.78	80.0	.0220	.8024	19.15.9	L	Noon.
21	19.973	19.36	82.9	21.76	81.0	.0155	.8022	19.16.6	C	1 12 p. m.
22	19.699	19.42	83.6	21.61	82.1	.0165	.8006	19.16.0	C	2 12 „
23	19.218	19.47	84.0	21.58	82.5	.0173	.8002	19.15.7	C	3 12 „
Nov. 23RD—Noon.	19.218	19.08	82.4	21.66	82.0	.0107	.8011	19.16.9	C	4 12 „
1	19.218	18.88	80.8	21.72	80.8	.0075	.8018	19.16.2	H	5 12 „
2	19.081	18.81	79.6	21.72	80.0	.0064	.8018	19.16.5	H	6 12 „
3	19.561	18.56	79.3	21.74	79.6	.0023	.8020	19.17.1	H	7 12 „
4	21.002	18.45	79.0	21.82	79.2	.0005	.8029	19.17.6	H	8 12 „
5	20.385	17.82	78.0	21.80	78.7	7.9896	.8027	19.20.3	L	9 12 „
6	20.796	17.89	77.5	21.86	78.1	.9886	.8033	19.20.6	L	10 12 „
7	20.522	17.76	77.1	21.86	77.8	.9873	.8033	19.20.9	L	11 12 „
8	19.356	18.61	77.0	21.85	77.5	8.0031	.8032	19.18.7	L	Midnight.
9	19.767	18.56	77.2	22.00	77.9	.0032	.8049	19.19.4	C	1 12 a. m.
10	19.150	18.70	77.0	21.98	77.7	.0046	.8046	19.19.0	C	2 12 „
11	18.155	18.68	76.8	21.94	77.2	.0042	.8042	19.19.0	C	2 12 „
12	17.023	19.08	76.6	22.01	77.1	.0107	.8050	19.18.5	C	4 12 „
13	17.229	18.95	76.6	22.11	77.0	.0087	.8061	19.19.0	H	5 12 „
14	16.817	18.78	76.4	22.13	76.9	.0058	.8063	19.19.5	H	6 12 „
15	17.366	18.61	76.2	22.29	76.4	.0031	.8080	19.20.6	H	7 12 „
16	18.121	18.63	77.0	22.30	76.6	.0042	.8082	19.20.5	H	8 12 „
17	18.601	18.74	78.4	22.21	77.0	.0052	.8072	19.19.9	L	9 12 „
18	18.670	19.15	79.6	22.03	77.8	.0120	.8052	19.18.3	L	10 12 „
19	18.875	19.10	80.8	21.95	79.0	.0112	.8043	19.18.2	L	11 12 „
20	19.630	19.29	82.0	21.90	80.1	.0142	.8038	19.17.6	L	Noon.
21	20.042	19.40	83.1	21.92	81.3	.0161	.8040	19.17.4	C	1 12 p. m.
22	19.836	19.52	84.1	21.86	82.2	.0181	.8033	19.16.9	C	2 12 „
23	19.218	19.44	84.0	21.82	82.2	.0167	.8029	19.16.8	C	3 12 „

DAILY OBSERVATIONS FROM 24TH TO 26TH NOVEMBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
Nov. 24TH-Noon.	19'356	19.00	82°9	21.86	82°0	8.0095	2.8033	19°17'9	C	4 12 p. m.
1	20.042	18.62	81.5	21.94	81.3	.0034	.8042	19.19.1	H	5 12 ,,
2	19.561	18.38	80.5	21.92	80.6	7.9989	.8040	19.19.6	H	6 12 ,,
3	19.561	18.17	80.0	21.90	80.1	.9960	.8038	19.19.9	H	7 12 ,,
4	19.836	18.23	79.9	21.97	79.9	.9968	.8045	19.20.1	H	8 12 ,,
5	19.836	18.32	79.1	22.00	79.2	.9985	.8049	19.19.9	L	9 12 ,,
6	20.042	18.24	78.2	21.96	78.8	.9970	.8044	19.20.0	L	10 12 ,,
7	19.493	18.18	78.1	22.06	78.5	.9960	.8055	19.20.6	L	11 12 ,,
8	19.767	18.60	77.8	21.99	77.9	8.0030	.8047	19.19.4	L	Midnight.
9	19.321	18.50	77.0	22.13	77.6	.0013	.8063	19.20.2	C	1 12 a. m.
10	19.013	18.59	76.9	22.17	77.2	.0027	.8067	19.20.1	C	2 12 ,,
11	18.464	19.57	76.3	22.21	76.8	.0025	.8072	19.20.2	C	3 12 ,,
12	18.670	18.62	76.3	22.29	76.8	.0034	.8080	19.20.6	C	4 12 ,,
13	18.327	18.47	76.0	22.31	76.4	.0009	.8083	19.21.0	H	5 12 ,,
14	18.327	18.48	75.6	22.28	76.0	.0009	.8079	19.20.8	H	6 12 ,,
15	18.532	18.49	75.8	22.38	76.0	.0011	.8090	19.21.3	H	7 12 ,,
16	18.738	18.72	76.6	22.38	76.0	.0050	.8090	19.20.7	H	8 12 ,,
17	18.670	19.04	78.0	22.31	76.4	.0101	.8083	19.19.8	L	9 12 ,,
18	18.189	19.26	79.1	22.16	77.2	.0138	.8066	19.18.6	L	10 12 ,,
19	16.955	19.50	80.8	21.91	78.5	.0177	.8039	19.17.1	L	11 12 ,,
20	17.092	19.31	81.6	21.90	79.4	.0146	.8038	19.17.4	L	Noon.
21	18.670	19.23	81.9	22.02	80.0	.0132	.8051	19.18.2	C	1 12 p. m.
22	19.424	19.18	82.0	22.00	80.8	.0124	.8049	19.18.2	C	2 12 ,,
23	19.561	19.01	82.1	21.92	81.2	.0096	.8040	19.18.2	C	3 12 ,,
Nov. 25TH-Noon.	19.424	18.89	81.5	21.93	80.9	.0077	.8038	19.18.4	C	4 12 ,,
1	19.081	18.92	80.7	21.96	80.2	.0083	.8044	19.18.6	H	5 12 ,,
2	19.013	18.89	80.0	22.04	80.0	.0077	.8053	19.19.0	H	6 12 ,,
3	19.013	18.62	79.6	22.04	79.6	.0034	.8053	19.19.6	H	7 12 ,,
4	19.150	18.56	79.4	22.07	79.3	.0023	.8056	19.19.8	H	8 12 ,,
5	19.218	18.74	79.0	22.07	79.0	.0052	.8056	19.19.4	L	9 12 ,,
6	19.630	18.31	78.2	22.17	78.4	7.9982	.8067	19.20.8	L	10 12 ,,
7	19.561	18.44	77.6	22.14	77.9	8.0003	.8064	19.20.3	L	11 12 ,,
8	19.424	18.57	77.4	22.25	77.7	.0025	.8076	19.20.4	L	Midnight.
9	18.944	18.70	77.2	22.25	77.5	.0046	.8076	19.20.1	C	1 12 a. m.
10	18.807	18.60	77.0	22.32	77.2	.0030	.8084	19.20.7	C	2 12 ,,
11	18.670	18.58	76.5	22.30	76.8	.0025	.8082	19.20.6	C	3 12 ,,
12	18.670	18.71	76.1	22.41	76.6	.0047	.8094	19.20.8	C	4 12 ,,
13	18.875	18.84	76.1	22.42	76.6	.0069	.8095	19.20.7	H	5 12 ,,
14	18.758	18.83	75.6	22.42	76.1	.0067	.8095	19.20.7	H	6 12 ,,
15	18.670	18.70	75.8	22.52	76.0	.0046	.8106	19.21.3	H	7 12 ,,
16	18.738	18.98	76.8	22.48	76.1	.0091	.8101	19.20.6	H	8 12 ,,
17	18.875	19.36	78.4	22.38	76.7	.0155	.8090	19.19.3	L	9 12 ,,
18	18.121	19.42	79.6	22.23	77.5	.0165	.8074	19.18.5	L	10 12 ,,
19	17.503	19.61	80.8	22.11	78.5	.0195	.8061	19.17.6	L	11 12 ,,
20	17.845	19.50	81.7	22.11	79.6	.0177	.8061	19.17.9	L	Noon.
21	18.875	19.26	82.1	22.15	80.0	.0138	.8065	19.18.6	C	1 12 p. m.
22	19.973	18.86	82.3	22.07	80.4	.0073	.8056	19.19.2	C	2 12 ,,
23	19.356	18.92	82.0	21.97	80.8	.0083	.8045	19.18.7	C	3 12 ,,
Nov. 26TH-Noon.	19.150	19.00	81.5	22.02	80.6	.0095	.8051	19.18.6	C	4 12 ,,
1	18.944	18.92	80.6	22.03	80.2	.0083	.8052	19.18.9	H	5 12 ,,
2	19.081	18.81	79.6	22.05	80.0	.0064	.8054	19.19.2	H	6 12 ,,
3	19.013	18.81	79.3	23.38	79.4	.0064	.8200	19.24.9	H	7 12 ,,
4	18.807	18.78	79.0	23.46	79.3	.0058	.8209	19.25.2	H	8 12 ,,
5	18.670	18.78	78.6	23.54	78.8	.0058	.8218	19.25.6	L	9 12 ,,
6	18.670	18.79	78.4	23.56	78.5	.0060	.8220	19.25.7	L	10 12 ,,
7	18.601	18.87	77.7	23.56	78.0	.0075	.8220	19.25.5	L	11 12 ,,
8	18.327	18.91	77.3	23.63	77.6	.0080	.8228	19.25.8	L	Midnight.
9	18.464	18.91	77.4	23.61	77.8	.0080	.8226	19.25.7	C	1 12 a. m.
10	18.327	18.92	77.1	23.64	77.5	.0083	.8229	19.25.8	C	2 12 ,,
11	18.464	18.82	77.6	23.63	77.0	.0067	.8228	19.25.9	C	3 12 ,,

On the 26th, at about 19h., Dip as obtained by Observation was 19°03'5.

DAILY OBSERVATIONS FROM 26TH TO 28TH NOVEMBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
Nov. 26TH—12	17'846	18.61	75'4	23.70	76'2	8.0031	2.8236	19°26'8	C	4 12 a. m.
13	18.189	18.96	75.4	23.74	76.2	.0064	.8240	19.26.5	H	5 12 „
14	18.258	18.85	75.2	23.84	75.9	.0071	.8251	19.26.8	H	6 12 „
15	17.641	18.92	75.8	23.79	75.8	.0083	.8245	19.26.5	H	7 12 „
16	18.395	18.99	76.2	23.87	75.8	.0093	.8254	19.26.6	H	8 12 „
17	18.807	19.20	77.4	23.86	76.0	.0128	.8253	19.26.1	L	9 12 „
18	18.327	19.55	78.9	23.76	76.9	.0185	.8242	19.24.8	L	10 12 „
19	18.258	19.64	80.0	23.69	77.9	.0200	.8234	19.24.8	L	11 12 „
20	18.532	19.53	80.5	23.68	78.6	.0181	.8233	19.24.7	L	Noon.
21	18.395	19.33	81.0	23.67	79.5	.0189	.8232	19.24.9	C	1 12 p. m.
22	18.807	19.16	81.8	23.65	80.1	.0122	.8230	19.25.3	C	2 12 „
23	19.013	18.94	81.5	23.59	80.2	.0085	.8223	19.25.4	C	3 12 „
Nov. 27TH-Noon.	19.287	19.00	80.9	23.57	80.1	.0095	.8221	19.25.2	C	4 12 „
1	18.738	18.87	80.0	23.60	79.9	.0075	.8225	19.25.7	H	5 12 „
2	19.081	18.75	79.6	23.64	79.5	.0052	.8229	19.26.1	H	6 12 „
3	19.699	18.40	79.1	23.67	79.1	7.9997	.8232	19.26.9	H	7 12 „
4	19.356	18.37	79.0	23.67	79.0	.9993	.8232	19.27.0	H	8 12 „
5	19.493	18.25	78.8	23.71	78.8	.9972	.8237	19.27.6	L	9 12 „
6	19.561	18.28	78.5	23.71	78.5	.9976	.8237	19.27.5	L	10 12 „
7	19.287	18.35	78.2	23.73	78.2	.9989	.8239	19.27.3	L	11 12 „
8	19.081	18.49	77.9	23.72	77.9	8.0011	.8238	19.27.1	L	Midnight.
9	18.670	18.53	77.1	23.72	77.3	.0017	.8238	19.26.9	C	1 12 a. m.
10	18.395	18.45	76.9	23.76	77.0	.0005	.8242	19.27.2	C	2 12 „
11	17.778	18.75	76.9	23.79	77.0	.0054	.8245	19.26.8	C	3 12 „
12	18.429	18.61	76.4	23.86	76.9	.0031	.8253	19.27.4	C	4 12 „
13	18.327	18.72	76.0	23.85	76.7	.0050	.8252	19.27.0	H	5 12 „
14	18.121	18.81	76.0	23.89	76.4	.0064	.8256	19.27.1	H	6 12 „
15	18.601	18.73	75.8	23.99	76.0	.0050	.8267	19.27.6	H	7 12 „
16	19.561	19.07	76.6	24.03	76.0	.0107	.8272	19.27.0	H	8 12 „
17	19.424	19.36	77.6	23.89	76.4	.0155	.8256	19.25.8	L	9 12 „
18	18.738	19.61	79.0	23.76	77.0	.0195	.8242	19.24.7	L	10 12 „
19	18.582	19.69	80.3	23.69	78.1	.0208	.8234	19.24.3	L	11 12 „
20	19.150	19.46	80.9	23.76	78.9	.0171	.8242	19.25.1	L	Noon.
21	19.561	19.23	81.0	23.75	79.4	.0132	.8241	19.25.6	C	1 12 p. m.
22	19.150	19.08	81.1	23.68	79.9	.0107	.8233	19.25.6	C	2 12 „
23	18.670	18.99	81.3	23.63	80.2	.0093	.8228	19.25.6	C	3 12 „
Nov. 28TH-Noon.	18.464	18.96	80 9	23.67	80.0	.0089	.8232	19.25.7	C	4 12 „
1	18.258	18.87	80.1	23.69	79.6	.0075	.8234	19.26.0	H	5 12 „
2	18.807	18.76	79.2	23.77	79.0	.0056	.8243	19.26.6	H	6 12 „
3	18.601	18.60	78.8	23.77	78.7	.0030	.8243	19.27.0	H	7 12 „
4	18.944	18.42	78.8	23.77	78.7	.0001	.8243	19.27.4	H	8 12 „
5	18.875	18.48	78.7	23.77	78.3	.0009	.8243	19.27.3	L	9 12 „
6	18.807	18.51	78.2	23.78	78.0	.0014	.8244	19.27.3	L	10 12 „
7	18.807	18.55	78.0	23.79	77.9	.0021	.8245	19.27.2	L	11 12 „
8	18.944	18.61	77.5	23.85	77.6	.0031	.8252	19.27.3	L	Midnight.
9	18.807	18.84	77.3	23.83	77.6	.0069	.8250	19.26.8	C	1 12 a. m.
10	18.464	18.72	77.2	23.89	77.3	.0050	.8256	19.27.2	C	2 12 „
11	17.915	18.83	77.0	23.88	77.0	.0067	.8255	19.27.0	C	3 12 „
12	17.846	18.76	76.8	23.93	77.0	.0056	.8261	19.27.2	C	4 12 „
13	17.915	18.67	76.0	23.92	76.6	.0042	.8260	19.27.5	H	5 12 „
14	17.984	18.62	75.0	23.92	76.0	.0034	.8260	19.27.6	H	6 12 „
15	17.503	18.73	74.6	24.08	75.3	.0050	.8277	19.28.0	H	7 12 „
16	18.327	19.07	75.6	24.07	75.7	.0097	.8276	19.27.3	H	8 12 „
17	18.395	19.32	77.0	23.96	76.0	.0149	.8264	19.26.1	L	9 12 „
18	18.738	19.40	78.3	23.91	76.9	.0161	.8259	19.25.9	L	10 12 „
19	18.670	19.56	79.5	23.82	78.0	.0187	.8249	19.25.1	L	11 12 „
20	18.875	19.59	80.8	23.91	79.0	.0201	.8259	19.25.4	L	Noon.
21	19.218	19.42	81.0	23.79	79.6	.0165	.8245	19.25.4	C	1 12 p. m.
22	19.218	19.29	81.4	23.73	80.1	.0142	.8239	19.25.4	C	2 12 „
23	19.013	19.09	80.9	23.70	80.1	.0109	.8236	19.25.7	C	3 12 „

On the 27th, at about 20h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 30TH NOVEMBER TO 2ND DECEMBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
Nov. 30TH-Noon.	18·601	19·21	82°0	23.63	81°0	8·0129	2·8228	19°25′1	C	4 12 p. m.
1	18.464	19.12	81.0	23.69	80.3	.0114	.8234	19.25.6	C	5 12 ,,
2	18.532	18·96	80.0	23.75	80.0	.0081	.8241	19.26.3	C	6 12 ,,
3	18.738	18.83	79.1	23.72	79.4	.0067	.8208	19.26.3	C	7 12 ,,
4	18.670	18.86	78·8	23.70	79.0	.0073	·8236	19.26.3	C	8 12 ,,
5	18.670	18.82	88.8	23.72	78.6	.0067	.8238	19.26.3	H	9 12 ,,
6	18.738	18.92	77·8	23.74	78.1	.0083	.8240	19.26.3	H	10 12 ,,
7	18.601	19.04	77.2	23.74	78.0	.0101	·8240	19.26.0	H	11 12 ,,
8	18.532	19.05	77.0	23.75	77.6	.0103	·8241	19.26.0	H	Midnight.
9	18.601	19.00	76.9	23.82	77.3	.0095	.8249	19.26.3	L	1 12 a. m.
10	18.189	18.95	76.7	23.84	77.2	.0087	.8251	19.26.5	L	2 12 ,,
11	17·984	18.97	76.4	23.85	77.0	.0091	.8252	19.26.5	L	3 12 ,,
12	17.846	19·08	76·0	23.82	76.6	.0107	.8249	19.26.2	L	4 12 ,,
13	17.984	19.06	75.7	23.83	76.5	.0105	.8250	19.26.3	C	5 12 ,,
14	17.778	19.08	75.4	23.90	76.0	·0107	.8258	19.26.6	C	6 12 ,,
15	17.366	19.23	75.2	24.00	75.9	.0132	.8269	19.26.6	C	7 12 ,,
16	18.807	19.53	75.9	24.05	76.0	.0181	.8284	19.26.5	C	8 12 ,,
17	19·356	19.79	77.0	24.03	76.8	.0224	.8292	19.25.5	H	9 12 ,,
18	19·561	20.08	78.6	23.90	77.1	.0271	.8258	19.24.5	H	10 12 ,,
19	18.532	20.20	79.6	23.80	78.0	.0292	.8247	19.23.8	H	11 12 ,,
20	18·670	20.37	80.7	23.82	78.8	.0320	.8249	19.23.4	H	Noon.
21	19·561	20.05	81.0	23.88	79.3	.0267	.8259	19.24.5	N	1 12 p. m.
22	19.561	19.86	81.8	23.86	80.1	.0236	.8253	19.24.7	N	2 12 ,,
23	19.218	19.53	81.6	23.74	80.3	.0181	.8240	19.25.0	N	3 12 ,,
DEC. 1ST-Noon.	19.013	19·33	81.0	23.81	80·3	.0149	.8248	19.25.6	N	4 12 ,,
1	18.258	19.30	80.5	23.77	80.0	.0145	.8243	19.25.4	C	5 12 ,,
2	18.258	19.24	79.9	23.85	79.6	.0134	.8252	19.26.0	C	6 12 ,,
3	18.395	19.07	79.1	23.81	79·1	.0107	.8248	19.26.2	C	7 12 ,,
4	18.395	19.06	78.8	23.87	79.0	.0105	.8254	19.26.4	C	8 12 ,,
5	18.395	18.98	78.1	23.90	78·7	.0091	.8258	19.26.8	H	9 12 ,,
6	18.395	18.97	77.5	23.95	78.2	·0091	.8263	19.26.9	H	10 12 ,,
7	18·670	18.91	77.0	24.05	77.9	.0080	.8274	19.27.5	H	11 12 ,,
8	18.738	19.03	76.6	24.04	77.4	.0099	.8273	19.27.2	H	Midnight.
9	18.670	18.88	76.3	24.01	77.0	.0075	.8270	19.27.4	N	1 12 a. m.
10	18·121	19.00	76.1	24.03	77.0	.0095	.8272	19.27.1	N	2 12 ,,
11	17.984	18.90	57.3	24.06	76.5	.0079	.8275	19.27.6	N	3 12 ,,
12	17.915	19.08	75.3	24.08	76.1	.0107	.8277	19.27.3	N	4 12 ,,
13	17·915	19.02	75.3	24.10	76.1	.0099	.8280	19.27.5	C	5 12 ,,
14	17·503	19.00	74·0	24.13	75.3	.0095	.8283	19.27.6	C	6 12 ,,
15	17.778	18.83	74.1	24.20	75.0	·0067	.8291	19.28.3	C	7 12 ,,
16	18.670	19.23	75.2	24.26	75.3	.0132	.8297	19.27.8	C	8 12 ,,
17	19·013	19·43	76.4	24.21	75.7	.0165	.8292	19.27.0	H	9 12 ,,
18	19·081	19.51	77.8	24.00	76·6	.0178	.8269	19.26.0	H	10 12 ,,
19	18.601	19.95	79.6	23.87	77.8	.0251	·8254	19.24.5	H	11 12 ,,
20	18.327	19.87	80.4	23.86	78.6	.0238	.8253	19.24.7	H	Noon.
21	18.395	19.68	80.9	23.87	79.1	·0206	.8254	19·25.1	N	1 12 p. m.
22	18·532	19.60	81.5	23.82	80.0	·0194	.8247	19.25.1	N	2 12 ,,
23	17.984	19·46	81.4	23.75	80.3	.0171	.8241	19.25.1	N	3 12 ,,
DEC. 2ND-Noon.	17.778	19.41	80.6	23.79	80.2	.0162	.8245	19.25.4	N	4 12 ,,
1	18·052	19.32	79.6	23.94	79·5	.0149	.8262	19·26.0	C	5 12 ,,
2	18·189	18.94	79.0	23.97	79.0	.0085	.8265	19.27.0	C	6 12 ,,
3	18.464	18.47	78.5	23.94	78.7	.0009	.8262	19.27.9	C	7 12 ,,
4	18.807	18.38	78.1	23.97	78.5	7·9993	.8265	19.28.3	C	8 12 ,,
5	18.464	18.60	77.5	23.95	78.0	8.0030	.8263	19.27.7	H	9 12 ,,
6	18.875	18.60	76.7	24.03	77·5	.0030	.8272	19.28.0	H	10 12 ,,
7	19.287	18.30	76.0	24.11	77.1	7.9981	.8281	19.29.1	H	11 12 ,,
8	18·807	18.54	75·5	24.10	76.6	8.0019	.8280	19.28.5	H	Midnight.
9	19.150	18.51	75.3	24.14	76.2	.0014	.8284	19.28.8	N	1 12 a. m.
10	19.081	18.51	75.0	24.18	76·0	·0014	.8288	19.29.0	N	2 12 ,,
11	18.738	18.65	74.8	24.21	75·8	.0038	.8292	19.28.7	N	3 12 ,,

DAILY OBSERVATIONS FROM 2ND TO 4TH DECEMBER 1857.

DATE. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.	'									h. m.
DEC. 2ND—12	18'189	18.69	74°8	24.22	75°5	8.0044	2.8293	19°28'8	N	4 12 a. m.
13	18.121	18.57	74.0	24.22	75.0	.0025	.8293	19.28.9	C	5 12 „
14	18·875	18.68	74.0	24.03	74.8	.0042	.8272	19.27.9	C	6 12 „
15	17.984	18.77	74.2	24.22	74.7	.0058	.8293	19.28.5	C	7 12 „
16	18.258	19.11	74.8	24.18	74.8	.0113	.8288	19.27.7	C	8 12 „
17	18.052	19.37	75.9	24.01	75.3	.0157	.8270	19.26.3	H	9 12 „
18	17.846	19.61	76.9	24.00	76.0	.0205	.8269	19.25.6	H	10 12 „
19	17.435	19.73	78.0	23.90	76.8	.0214	.8258	19.25.3	H	11 21 „
20	17.915	19.61	78.9	23.93	77.7	.0205	.8261	19.25.3	H	Noon.
21	18.807	19.53	79.8	23.95	78.0	.0181	.8263	19.25.7	N	1 12 p. m.
22	19.218	19.36	80.3	23.85	79.0	.0155	.8252	19.25.6	N	2 12 „
23	19.150	19.20	80.6	23.85	79.7	.0128	.8252	19.26.0	N	3 12 „
DEC. 3RD-Noon.	18.875	18.96	80.1	23.79	79.5	.0089	.8245	19.26.3	N	4 12 „
1	18.327	18.82	79.1	23.76	79.0	.0067	.8242	19.26.4	C	5 12 „
2	18.532	18.84	78.7	23.86	78.8	.0069	.8253	19.26.9	C	6 12 „
3	18.670	18.79	78.0	23.90	78.3	.0060	.8258	19.27.2	C	7 12 „
4	18.670	18.74	77.7	23.91	78.0	.0052	.8259	19.27.3	C	8 12 „
5	18.464	18.76	77.5	23.93	77.6	.0056	.8261	19.27.2	H	9 12 „
6	18.738	18.66	76.7	23.92	77.2	.0040	.8260	19.27.5	H	10 12 „
7	18.670	18.76	76.0	24.16	77.0	.0056	.8286	19.28.2	H	11 12 „
8	18.738	18.79	76.0	24.10	76.6	.0060	.8280	19.28.0	H	Midnight.
9	18.361	18.78	75.8	24.09	76.2	.0058	.8278	19.27.9	N	1 12 a. m.
10	18.395	18.90	75.5	24.16	76.0	.0079	.8286	19.28.0	N	2 12 „
11	18.121	18.75	75.1	24.17	75.8	.0054	.8287	19.28.4	N	3 12 „
12	17.984	18.82	75.0	24.17	75.7	.0067	.8287	19.28.2	N	4 12 „
13	17.984	18.90	75.0	24.21	75.3	.0079	.8292	19.28.2	C	5 12 „
14	17.641	19.02	74.8	24.19	75.1	.0099	.8289	19.27.8	C	6 12 „
15	17.641	18.94	74.8	24.30	75.0	.0085	.8302	19.28.4	C	7 12 „
16	18.601	19.13	75.1	24.25	75.1	.0116	.8296	19.27.8	C	8 12 „
17	17.846	19.46	76.3	24.12	75.4	.0171	.8282	19.26.6	H	9 12 „
18	16.612	19.81	78.0	23.89	76.2	.0227	.8256	19.24.9	H	10 12 „
19	16.269	19.94	79.1	23.84	77.3	.0249	.8251	19.24.4	H	11 12 „
20	16·612	19.84	80.1	23.91	78.3	.0232	.8259	19.25.0	H	Noon.
21	17.572	19.78	81.7	23.99	79.0	.0222	.8267	19.25.4	N	1 12 p. m.
22	18.532	19.62	82.6	23.02	80.5	.0198	.8271	19.25.8	N	2 12 „
23	19.047	19.43	82.7	23.93	80.9	.0165	.8261	19.26.8	N	3 12 „
DEC. 4TH-Noon.	19.013	19.21	81.8	23.92	80.6	.0129	.8260	19.26.3	N	4 12 „
1	18.601	19.13	80.9	23.91	80.2	.0116	.8259	19.26.4	C	5 12 „
2	18.532	19.05	80.0	23.98	79.9	.0103	.8266	19.26.9	C	6 12 „
3	18.670	18.90	79.3	23.98	79.2	.0079	.8266	19.27.2	C	7 12 „
4	18.601	18.78	78.9	23.97	79.0	.0058	.8265	19.27.4	C	8 12 „
5	18.395	18.85	78.4	23.96	78.7	.0071	.8264	19.27.2	H	9 12 „
6	18.327	18.89	77.6	24.00	78.4	.0077	.8269	19.27.3	H	10 12 „
7	18.532	18.86	77.0	24.00	78·0	.0073	.8269	19.27.4	H	11 12 „
8	18.189	19.02	77.0	24.05	77.8	.0099	.8274	19.27.2	H	Midnight.
9	18.258	19.06	76.7	24.07	77.2	.0105	.8276	19.27.2	N	1 12 a. m.
10	18.189	19.25	76.5	24.04	77.2	.0136	.8273	19.26.7	N	2 12 „
11	18.429	19.15	76.0	24.06	77.0	.0120	.8275	19.27.0	N	3 12 „
12	18.258	19.07	76.2	24.12	76.8	.0107	.8282	19.27.4	N	4 12 „
13	18.052	18.96	76.0	24.07	76.9	.0089	.8276	19.27.4	C	5 12 „
14	18·395	19.11	75.8	24.25	76.9	.0113	.8292	19.27.8	C	6 12 „
15	19.561	19.06	75.8	24.22	76.5	.0105	.8293	19.27.9	C	7 12 „
16	19.836	19.28	76.7	24.10	76.8	.0140	.8280	19.27.0	C	8 12 „
17	19·013	19.86	78.0	23.72	77.3	.0236	.8238	19.24.1	H	9 12 „
18	17.984	20·16	80.0	23.48	78.6	.0286	.8211	19.22.3	H	10 12 „
19	17.092	20.64	82.0	23.30	80.0	.0363	.8192	19.20.6	H	11 12 „
20	17.435	20.59	83.3	23.52	81.2	.0355	.8216	19.21.6	H	Noon.
21	18.189	20.29	84.0	23.67	82.2	.0306	.8232	19.22.9	N	1 12 p. m.
22	18.738	20.02	84.1	23.78	82.8	.0263	.8244	19.24.0	N	2 12 „
23	19.287	19.80	84.2	23.81	83.0	.0226	.8248	19.24.6	N	3 12 „

On the 3rd, at about 19h., Dip as obtained by Observation was 18°24'7.
On the 4th, at about 19h., Deflection Observations were taken.

DAILY OBSERVATIONS FROM 6TH TO 8TH DECEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Dec. 6th—Noon.	*19·218	19.42	82°6	23.86	82°0	3.0165	2.8253	19°25′6	H	4 12 p. m.
1	18.670	19.22	81.0	23.89	81.0	.0132	.8256	19.26.2	H	5 12 „
2	18.738	19.07	80.1	23.97	80.4	.0107	.8265	19.26.8	C	6 12 „
3	18.944	18.83	79.1	24.00	79.9	.0067	.8269	19.27.4	C	7 12 „
4	18.944	18.82	78.5	23.93	79.1	.0067	.8261	19.27.1	C	8 12 „
5	18.670	18.76	78.0	23.96	78.6	.0056	.8264	19.27.3	H	9 12 „
6	18.670	18.79	77.8	24.07	78.2	.0060	.8276	19.27.8	H	10 12 „
7	18.875	18.76	76.6	24.09	77.9	.0056	.8278	19.27.9	H	11 12 „
8	18.807	18.65	75.5	24.07	77.2	.0038	.8276	19.28.1	H	Midnight.
9	18.464	18.90	75.6	24.11	76.9	.0079	.8281	19.27.8	L	1 12 a. m.
10	19.081	19.00	75.5	24.15	76.5	.0095	.8285	19.27.7	L	2 12 „
11	18.807	18.93	75.4	24.17	76.4	.0083	.8287	19.28.1	L	3 12 „
12	18.601	18.88	75.4	24.21	76.2	.0075	.8292	19.28.2	L	4 12 „
13	18.807	18.92	75.3	24.28	76.0	.0083	.8299	19.28.5	C	5 12 „
14	19.047	18.83	75.3	24.33	76.0	.0067	.8305	19.28.9	C	6 12 „
15	19.287	18.76	75.2	24.54	75.9	.0054	.8328	19.30.0	C	7 12 „
16	19.973	18.93	75.9	24.48	76.0	.0083	.8321	19.29.4	C	8 12 „
17	20.385	19.14	76.8	24.32	76.0	.0118	.8304	19.28.1	H	9 12 „
18	18.738	19.37	77.7	23.98	76.7	.0157	.8266	19.26.1	H	10 12 „
19	17·778	19.71	79.0	23.85	*77.6	.0211	.8252	19.25.0	H	11 12 „
20	17.641	19.84	80.1	23.82	78.6	.0232	.8247	19.24.6	H	Noon.
21	18.258	19.89	81.3	23.79	79.7	.0230	.2845	19.24.5	L	1 12 p. m.
22	18.395	19.84	82.2	23.76	80.9	.0232	.8242	19.24.3	L	2 12 „
23	18.189	19.68	82.3	23.83	81.0	.0206	.8250	19.25.0	L	3 12 „
Dec. 7th-Noon.	18.532	19.36	80.9	23.93	80.2	.0155	.8261	19.25.9	L	4 12 „
1	18.464	19.27	79.4	24.01	79.5	.0140	.8270	19.26.6	C	5 12 „
2	18.807	18.97	78.5	24.11	79.0	.0091	.8281	19.27.6	C	6 12 „
3	18.944	18.88	78.0	24.13	78.7	.0075	.8283	19.27.9	C	7 12 „
4	18.944	18.83	77.9	24.12	78.1	.0067	.8282	19.27.9	C	8 12 „
5	18.601	18.81	77.7	24.22	77.9	.0064	.8293	19.28.5	H	9 12 „
6	18.532	18.84	76.9	24.34	77.4	.0069	.8306	19.28.9	H	10 12 „
7	19.013	18.71	75.9	24.33	76.9	.0047	.8305	19.29.1	H	11 12 „
8	18.807	18.77	75.6	24.29	76.4	.0058	.8300	19.28.8	H	Midnight.
9	19.356	18.75	75.0	24.38	76.0	.0050	.8310	19.29.3	L	1 12 a. m.
10	18.944	18.79	75.1	24.38	76.0	.0060	.8310	19.29.2	L	2 12 „
11	19.424	18.96	75.2	24.35	75.7	.0089	.8307	19.28.7	L	3 12 „
12	18.464	18.88	75.0	24.39	75.5	.0075	.8311	19.29.0	L	4 12 „
13	18.327	18.82	74.6	24.42	75.2	.0067	.8315	19.29.3	C	5 12 „
14	18.189	18.83	74.1	24.45	75.0	.0067	.8318	19.29.4	C	6 12 „
15	17.915	19.08	74.1	24.52	74.7	.0107	.8326	19.29.2	C	7 12 „
16	18.395	19.18	74.9	24.63	74.9	.0114	.8338	19.29.7	C	8 12 „
17	18.738	19.58	76.2	24.56	75.3	.0189	.8330	19.28.3	H	9 12 „
18	17.641	19.88	77.4	24.32	75.9	.0238	.8304	19.26.6	H	10 12 „
19	17.092	20.17	78.3	24.20	76.7	.0288	.8291	19.25.4	H	11 12 „
20	17.435	20.25	79.4	24.21	77.9	.0300	.8292	19.25.3	H	Noon.
21	18.532	20.00	80.0	24.23	78.2	.0259	.8294	19.25.9	L	1 12 p. m.
22	18.807	19.81	80.0	24.18	78.6	.0227	.8288	19.26.1	L	2 12 „
23	18.875	19.49	79.9	24.19	78.9	.0175	.8289	19.26.8	L	3 12 „
Dec. 8th-Noon.	18.875	19.34	79.1	24.25	78.9	.0151	.8296	19.29.4	L	4 12 „
1	18.807	19.29	78.1	24.27	78.2	.0142	.8298	19.27.7	C	5 12 „
2	18.670	19.08	77.9	24.29	77.9	.0107	.8300	19.28.2	C	6 12 „
3	18.601	19.05	77.6	24.23	77.7	.0103	.8294	19.28.0	C	7 12 „
4	18.670	19.05	77.0	24.19	77.1	.0103	.8289	19.27.8	C	8 12 „
5	18.670	18.91	76.0	24.25	76.8	.0080	.8296	19.28.4	H	9 12 „
6	18.670	18.86	75.2	24.23	76.1	.0073	.8293	19.28.4	H	10 12 „
7	18.670	18.93	75.0	24.36	76.0	.0083	.8308	19.28.9	H	11 12 „
8	18.601	19.05	75.2	24.34	75.9	.0103	.8306	19.28.6	H	Midnight.
9	18.464	18.99	75.1	24.35	75.7	.0093	.8307	19.28.7	L	1 12 a. m.
10	18.532	19.05	74.9	24.38	75.4	.0103	.8310	19.28.7	L	2 12 „
11	18.327	19.00	74.7	24.38	75.3	.0095	.8310	19.28.7	L	3 12 „

On the 7th, at about 19h., Dip as obtained by Observation was 19°11′3.

DAILY OBSERVATIONS FROM 8TH TO 10TH DECEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Dec. 8th—12	18'189	19.02	74°4	24.39	75°0	8.0099	2.8311	19°28'7	L	4 12 a. m.
13	17.984	19.04	74.0	24.41	75.0	.0101	.8314	19.28.8	C	5 12 „
14	17.915	19.10	74.0	24.50	74.8	.0112	.8324	19.29.1	C	6 12 „
15	18.189	19.18	74.1	24.59	74.5	.0124	.8333	19.29.5	C	7 12 „
16	19.150	19.40	75.0	24.65	74.9	.0161	.8340	19.29.1	C	8 12 „
17	19.561	19.71	76.4	24.45	75.1	.0211	.8318	19.27.6	H	9 12 „
18	18.327	19.95	77.5	24.28	76.0	.0251	.8299	19.26.2	H	10 12 „
19	17.572	20.13	78.5	24.31	76.9	.0280	.8303	19.26.1	H	11 12 „
20	17.950	20.13	79.6	24.26	78.0	.0280	.8297	19.25.9	H	Noon.
21	18.532	20.09	80.9	24.22	79.2	.0273	.8293	19.25.8	L	1 12 p. m.
22	18.944	20.04	82.0	24.15	80.0	.0265	.8285	19.25.5	L	2 12 „
23	18.875	19.77	81.4	24.12	80.0	.0222	.8282	19.25.9	L	3 12 „
Dec. 9th-Noon.	18.944	19.50	80.0	24.18	79.4	.0177	.8288	19.26.8	L	4 12 „
1	19.150	19.35	79.0	24.24	78.8	.0153	.8295	19.27.4	C	5 12 „
2	18.944	19.08	78.0	24.26	78.1	.0107	.8297	19.28.1	C	6 12 „
3	18.944	19.08	77.9	24.30	77.7	.0107	.8302	19.28.2	C	7 12 „
4	18.875	19.02	77.5	24.29	77.4	.0099	.8300	19.28.3	C	8 12 „
5	18.738	18.89	76.6	24.26	77.0	.0077	.8297	19.28.5	H	9 12 „
6	18.738	18.89	75.8	24.30	76.5	.0077	.8302	19.28.6	H	10 12 „
7	18.601	18.96	75.5	24.33	76.3	.0089	.8305	19.28.6	H	11 12 „
8	18.601	18.87	75.1	24.33	75.9	.0075	.8305	19.28.8	H	Midnight.
9	18.327	19.09	75.2	24.41	75.8	.0109	.8314	19.28.7	L	1 12 a. m.
10	18.258	19.00	75.0	24.43	75.6	.0095	.8316	19.29.0	L	2 12 „
11	18.052	19.26	74.7	24.42	75.1	.0138	.8315	19.28.4	L	3 12 „
12	18.121	19.24	74.5	24.45	74.9	.0134	.8318	19.28.6	L	4 12 „
13	18.258	19.16	74.3	24.54	74.8	.0122	.8328	19.29.1	C	5 12 „
14	17.915	19.15	74.0	24.49	74.3	.0120	.8322	19.28.8	C	6 12 „
15	17.743	19.35	74.0	24.62	74.0	.0153	.8337	19.29.1	C	7 12 „
16	19.699	19.47	74.7	24.72	74.1	.0163	.8348	19.29.4	C	8 12 „
17	20.728	19.82	75.5	24.66	74.6	.0230	.8341	19.28.2	H	9 12 „
18	19.836	20.24	76.4	24.37	75.0	.0298	.8309	19.26.0	H	10 12 „
19	19.973	20 24	77.5	24.26	76.0	.0298	.8297	19.25.6	H	11 12 „
20	19.973	19.81	78.6	24.15	77.1	.0227	.8285	19.26.1	H	Noon.
21	19.561	19.59	79.8	24.04	78.1	.0191	.8273	19.26.0	L	1 12 p. m.
22	19.081	19.37	80.8	23.99	79.0	.0157	.8267	19.26.2	L	2 12 „
23	19.218	19.28	81.0	24.06	79.4	.0130	.8275	19.26.9	L	3 12 „
Dec. 10th-Noon.	19.081	19.34	80.6	24.16	79.2	.0151	.8286	19.27.0	L	4 12 „
1	18.670	19.18	79.0	24.17	78.9	.0124	.8287	19.27.5	C	5 12 „
2	18.807	19 12	78.0	24.26	78.0	.0116	.8297	19.27.9	C	6 12 „
3	19.013	18.99	77.6	24.29	77.5	.0091	.8300	19.28.4	C	7 12 „
4	18.738	18.82	77.0	24.31	77.0	.0067	.8303	19.28.8	C	8 12 „
5	19.150	18.71	76.6	24.36	76.6	.0047	.8308	19.29.2	H	9 12 „
6	19.699	18.55	75.7	24.35	76.2	.0021	.8307	19.29.6	H	10 12 „
7	19.630	18.20	75.0	24.40	75.6	7.9964	.8313	19.30.6	H	11 12 „
8	18.944	18.48	74.8	24.39	75.3	8.0009	.8311	19.29.9	H	Midnight.
9	18.738	18.61	74.7	24.45	75.1	.0031	.8318	19.29.9	L	1 12 a. m.
10	18.601	18.75	74.3	24.45	74.9	.0054	.8318	19.29.6	L	2 12 „
11	18.189	18.76	74.0	24.49	74.5	.0056	.8322	19.29.6	L	3 12 „
12	18.327	18.80	73.9	24.51	74.3	.0063	.8325	19.29.8	L	4 12 „
13	18.018	18.82	73.5	24.57	74.0	.0067	.8331	19.29.9	C	5 12 „
14	18.052	18.86	73.0	24.63	73.3	.0073	.8338	19.30.2	C	6 12 „
15	17.572	18.83	73.1	24.74	73.3	.0067	.8340	19.30.3	C	7 12 „
16	18.807	19.19	74.5	24.79	73.8	.0126	.8355	19.30.1	C	8 12 „
17	19.493	19.42	76.1	24.73	74.5	.0165	.8349	19.29.3	H	9 12 „
18	19.630	19.63	77.5	24.60	75.1	.0198	.8335	19.28.4	H	10 12 „
19	19.287	19.75	78.6	24.43	76.4	.0218	.8316	19.27.3	H	11 12 „
20	19.767	19.66	79.4	24.46	77.4	.0204	.8319	19.27.7	H	Noon.
21	19.630	19.45	79.7	24.28	77.7	.0169	.8299	19.27.3	L	1 12 p. m.
22	18.738	19.43	79.9	24.22	78.0	.0165	.8293	19.27.1	L	2 12 „
23	18.944	19.35	79.9	24.25	78.4	.0153	.8296	19.27.4	L	3 12 „

On the 10th, at about 19h., Dip as obtained by Observation was 19°10'3.

DAILY OBSERVATIONS FROM 11TH TO 14TH DECEMBER 1857.

DATE. Göttingen Mean Time 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
DEC. 11TH-Noon.	19°013	19.22	79°1	24.32	78°3	3.0132	2.8304	19°28'0	L	4 12 p. m.
1	19.013	18.93	78.1	24.36	78.0	.6083	.8308	19.28.9	C	5 12 ,,
2	19.013	18.67	77.5	24.43	77.2	.0042	.8316	19.29.7	C	6 12 ,,
3	19.013	18.59	77.0	24.41	76.9	.0027	.8314	19.29.7	C	7 12 ,,
4	19.218	18.73	76.7	24.42	76.5	.0050	.8315	19.29.5	C	8 12 ,,
5	19.013	18.55	75.7	24.40	76.1	.0021	.8313	19.29.8	H	9 12 ,,
6	19.081	18.58	75.4	24.47	75.7	.0025	.8320	19.30.0	H	10 12 ,,
7	19.287	18.59	74.9	24.51	75.4	.0027	.8325	19.30.2	H	11 12 ,,
8	19.150	18.64	74.4	24.52	75.0	.0036	.8326	19.30.1	H	Midnight.
9	18.670	18.78	74.4	24.53	74.9	.0058	.8329	19.29.9	L	1 12 a. m.
10	18.395	18.78	74.4	24.56	74.8	.0058	.8330	19.30.0	L	2 12 ,,
11	18.395	18.75	73.9	24.57	74.1	.0054	.8331	19.30.1	L	3 12 ,,
12	18.395	18.76	73.6	24.62	74.1	.0056	.8337	19.30.3	L	4 12 ,,
13	18.052	18.80	73.4	24.62	74.0	.0063	.8337	19.30.3	C	5 12 ,,
14	18.052	18.84	72.9	24.66	73.7	.0069	.8341	19.30.3	C	6 12 ,,
15	17.846	18.93	73.0	24.75	73.5	.0083	.8351	19.30.6	C	7 12 ,,
16	18.738	19.27	74.1	24.82	74.0	.0140	.8359	19.30.1	C	8 12 ,,
17	19.356	19.66	75.8	24.72	74.5	.0204	.8348	19.28.9	H	9 12 ,,
18	19.699	20.12	77.6	24.52	75.8	.0280	.8326	19.27.0	H	10 12 ,,
19	19.561	20.26	79.4	24.34	77.0	.0302	.8306	19.25.9	H	11 12 ,,
20	19.699	20.21	80.5	24.37	77.9	.0293	.8309	19.26.1	H	Noon.
21	20.110	20.15	81.2	24.33	78.9	.0284	.8305	19.26.2	L	1 12 p. m.
22	20.110	19.90	81.5	24.23	79.4	.0243	.8294	19.26.1	L	2 12 ,,
23	19.493	19.68	81.9	24.22	80.0	.0206	.8293	19.26.6	L	3 12 ,,
DEC. 13TH-Noon.	18.532	19.41	84.0	24.18	83.0	.0162	.8288	19.27.0	C	4 12 ,,
1	18.738	19.28	82.8	24.22	82.0	.0140	.8293	19.27.5	C	5 12 ,,
2	18.807	19.12	81.6	24.30	81.5	.0116	.8302	19.28.0	C	6 12 ,,
3	19.218	19.04	80.9	24.30	81.0	.0101	.8302	19.28.3	C	7 12 ,,
4	18.738	19.08	80.5	24.24	80.7	.0107	.8295	19.28.0	C	8 12 ,,
5	18.670	19.09	80.4	24.24	80.5	.0109	.8295	19.28.0	H	9 12 ,,
6	18.670	19.09	80.0	24.26	80.2	.0109	.8297	19.28.1	H	10 12 ,,
7	18.601	19.18	79.9	24.25	80.0	.0124	.8296	19.27.8	H	11 12 ,,
8	18.601	19.13	79.8	24.25	79.9	.0116	.8296	19.27.9	H	Midnight.
9	18.738	19.14	79.3	24.27	79.8	.0118	.8298	19.27.9	L	1 12 a. m.
10	18.670	19.15	79.0	24.29	79.5	.0120	.8300	19.28.0	L	2 12 ,,
11	18.532	19.21	78.9	24.30	79.7	.0129	.8302	19.27.9	L	3 12 ,,
12	18.258	19.18	78.7	24.35	79.0	.0114	.8307	19.28.5	L	4 12 ,,
13	18.052	19.26	78.7	24.32	78.9	.0138	.8304	19.27.9	C	5 12 ,,
14	17.984	19.35	78.7	24.33	78.9	.0153	.8305	19.27.8	C	6 12 ,,
15	17.915	19.34	78.9	24.37	79.0	.0151	.8309	19.27.9	C	7 12 ,,
16	18.738	19.61	80.0	24.36	79.1	.0195	.8308	19.27.3	C	8 12 ,,
17	20.042	19.82	81.1	24.29	79.6	.0230	.8300	19.26.6	H	9 12 ,,
18	20.316	20.12	82.7	24.10	80.5	.0280	.8280	19.25.2	H	10 12 ,,
19	19.356	20.21	83.9	23.96	81.9	.0293	.8264	19.24.3	H	11 12 ,,
20	18.875	20.04	84.1	24.00	82.0	.0265	.8269	19.24.9	H	Noon.
21	18.601	19.99	84.7	24.00	82.6	.0257	.8269	19.24.9	L	1 12 p. m.
22	18.327	19.83	84.8	23.93	83.1	.0230	.8261	19.25.0	L	2 12 ,,
23	18.189	19.71	84.7	23.95	83.2	.0211	.8263	19 25.4	L	3 12 ,,
DEC. 14TH-Noon.	18.532	19.40	83.8	24.09	83.0	.0161	.8278	19.26.6	L	4 12 ,,
1	18.464	19.17	82.7	24.08	82.6	.0124	.8277	19.27.1	C	5 12 ,,
2	18.395	19.04	82.0	24.07	82.2	.0101	.8276	19.27.3	C	6 12 ,,
3	18.807	18.85	81.9	24.16	82.0	.0071	.8286	19.28.1	C	7 12 ,,
4	18.532	18.99	81.3	24.20	81.8	.0093	.8291	19.28.0	C	8 12 ,,
5	18.532	19.03	81.2	24.19	81.4	.0099	.8289	19.27.8	H	9 12 ,,
6	18.738	19.02	80.8	24.21	81.0	.0099	.8292	19.27.9	H	10 12 ,,
7	18.601	18.96	80.1	24.22	80.8	.0073	.8293	19.28.3	H	11 12 ,,
8	18.327	19.16	80.3	24.22	80.5	.0122	.8293	19.27.7	H	Midnight.
9	18.121	19.19	80.0	24.26	80.4	.0126	.8297	19.27.8	L	1 12 a. m.
10	18.121	19.11	79.8	24.28	80.1	.0113	.8299	19.28.1	L	2 12 ,,
11	17.984	19.08	79.4	24.26	80.0	.0108	.8297	19.28.1	L	3 12 ,,

On the 11th, at about 20h., the Deflection Observations were taken.

DAILY OBSERVATIONS FROM 14TH TO 16TH DECEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Dec. 14th—12	18°258	19.11	79°1	24.29	79°7	8.0113	2.8300	19°28'2	L	4 12 a. m.
13	17.949	19.10	78.9	24.30	79.3	.0112	.8302	19.28.2	C	5 12 „
14	17.984	19.09	78.5	24.30	79.2	.0109	.8302	19.28.2	C	6 12 „
15	17.641	19.14	78.5	24.36	79.0	.0118	.8308	19.28.3	C	7 12 „
16	18.532	19.50	79.6	24.38	79.1	.0197	.8310	19.27.7	C	8 12 „
17	19.767	19.59	80.5	24.36	79.4	.0181	.8308	19.29.6	H	9 12 „
18	20.247	19.78	81.5	24.16	79.9	.0222	.8286	19.26.1	H	10 12 „
19	19.082	19.89	83.0	23.93	80.9	.0240	.8261	19.24.9	H	11 12 „
20	18.875	19.91	84.0	23.92	81.9	.0244	.8260	19.24.9	H	Noon.
21	19.356	19.85	84.4	23.97	82.2	.0234	.8265	19.25.2	L	1 12 p. m.
22	19.218	19.71	84.4	23.98	82.7	.0211	.8266	19.25.5	L	2 12 „
23	18.327	19.71	84.2	23.99	83.0	.0211	.8267	19.25.6	L	3 12 „
Dec. 15th—Noon.	18.395	19.48	83.4	24.07	83.0	.0173	.8276	19.26.4	L	4 12 „
1	18.327	19.30	82.0	24.08	82.5	.0145	.8277	19.26.7	C	5 12 „
2	18.464	19.16	81.2	24.08	81.9	.0122	.8277	19.27.1	C	6 12 „
3	18.532	19.14	80.9	24.11	81.0	.0118	.8281	19.27.2	C	7 12 „
4	18.601	19.03	80.0	24.12	80.8	.0099	.8282	19.275	C	8 12 „
5	18.601	19.01	79.2	24.12	80.1	.0096	.8282	19.27.5	H	9 12 „
6	18.327	18.97	78.5	24.19	79.8	.0091	.8289	19.27.9	H	10 12 „
7	18.395	18.92	77.8	24.25	79.0	.0083	.8296	19.28.4	H	11 12 „
8	18.875	18.83	77.0	24.24	78.5	.0067	.8295	19.28.5	H	Midnight.
9	18.395	18.79	76.6	24.29	78.0	.0060	.8300	19.28.8	L	1 12 a. m.
10	17.778	18.77	76.0	24.27	77.4	.0058	.8298	19.28.7	L	2 12 „
11	18.258	18.75	75.3	24.33	76.9	.0050	.8305	19.29.1	L	3 12 „
12	17.572	18.89	75.3	24.30	76.6	.0077	.8302	19.28.6	L	4 12 „
13	17.778	18.89	75.5	24.40	76.5	.0077	.8313	19.29.1	C	5 12 „
14	17.709	19.10	75.5	24.41	76.5	.0112	.8314	19.28.7	C	6 12 „
15	18.052	19.34	75.4	24.50	76.1	.0151	.8324	19.28.4	C	7 12 „
16	19.356	19.57	76.5	24.59	76.2	.0189	.8333	19.28.4	C	8 12 „
17	20.042	19.80	77.6	24.52	76.6	.0226	.8326	19.27.6	H	9 12 „
18	19.973	20.06	78.9	24.40	77.4	.0269	.8313	19.26.6	H	10 12 „
19	19.973	20.01	79.5	24.29	78.1	.0260	.8300	19.26.2	H	11 12 „
20	20.179	19.88	80.4	24.23	78.9	.0238	.8294	19.26.2	H	Noon.
21	20.522	19.71	81.0	24.19	79.6	.0211	.8289	19.25.4	L	1 12 p. m.
22	19.904	19.61	81.4	24.02	80.0	.0195	.8271	19.25.8	L	2 12 „
23	19.081	19.53	81.3	24.03	80.2	.0181	.8272	19.26.1	L	3 12 „
Dec. 16th—Noon.	18.875	19.36	80.2	42.15	79.8	.0155	.8285	19.26.9	L	4 12 „
1	18.670	19.19	79.0	24.22	79.5	.0126	.8293	19.27.6	C	5 12 „
2	18.464	19.09	78.8	24.25	78.9	.0109	.8296	19.28.0	C	6 12 „
3	18.738	18.90	78.0	24.27	78.4	.0079	.8298	19.28.5	C	7 12 „
4	18.738	18.73	77.9	24.31	78.0	.0050	.8303	19.29.0	C	8 12 „
5	18.532	18.66	77.0	24.32	77.4	.0040	.8304	19.29.2	H	9 12 „
6	18.670	18.45	76.3	24.43	77.0	.0005	.8316	19.30.1	H	10 12 „
7	18.738	18.50	75.8	24.42	76.5	.0013	.8315	19.30.1	H	11 12 „
8	18.944	18.45	75.0	24.43	76.0	.0005	.8316	19.30.1	H	Midnight.
9	18.052	18.55	74.5	24.45	75.7	.0021	.8318	19.30.0	L	1 12 a. m.
10	17.641	18.64	74.1	24.48	75.3	.0036	.8321	19.29.9	L	2 12 „
11	17.915	18.65	74.0	24.50	75.0	.0038	.8324	19.30.0	L	3 12 „
12	17.915	18.77	74.1	24.57	75.0	.0050	.8331	19.30.1	L	4 12 „
13	17.778	18.89	74.3	24.59	75.0	.0077	.8333	19.29.9	C	5 12 „
14	17.503	19.02	74.0	24.57	75.0	.0099	.8331	19.29.5	C	6 12 „
15	14.759	19.83	73.5	24.65	74.3	.0230	.8340	19.28.2	C	7 12 „
16	15.994	20.10	73.9	24.76	74.4	.0276	.8352	19.28.0	C	8 12 „
17	15.857	19.82	75.6	24.57	74.9	.0230	.8331	19.27.8	H	9 12 „
* 18	17.984	19.22	77.4	24.12	75.8	.0132	.8282	19.27.1	H	10 12 „
19	17.846	18.81	79.0	24.37	77.0	.0064	.8309	19.29.1	H	11 12 „
20	22.305	19.37	79.8	24.19	77.8	.0157	.8289	19.27.0	H	Noon.
21	21.551	16.65	80.0	24.16	78.0	7.9695	.8286	19.32.9	L	1 12 p. m.
22	20.316	16.91	80.3	24.01	78.7	.9751	.8270	19.31.6	L	2 12 „
23	24.570	16.16	80.4	24.35	79.1	.9611	.8307	19.35.0	L	3 12 „

On the 14th at about 19h., Dip as obtained by Observation was 19°11'6.

* Small Horizontal Force Magnetometer box opened for adjustment.

DAILY OBSERVATIONS FROM 17TH TO 20TH DECEMBER 1857.

DATE. Göttingen Mean Time 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	DATE. Bombay Civil Time. 1857.
h.										h. m.
DEC. 17TH-Noon.	23'884	13.50	80°1	24.41	79°1	7.9195	2.8314	19°40'5	L	4 12 p. m.
1	22.512	13.15	79.1	24.21	78.8	.9122	.8292	19.40.6	C	5 12 ,,
2	23.404	13.28	78.2	24.35	78.4	.9135	.8307	19.41.1	C	6 12 ,,
3	24.502	13.89	77.8	24.71	78.0	.9230	.8347	19.41.5	C	7 12 ,,
4	19.904	15.65	77.5	24.59	77.5	.9531	.8333	19.37.0	C	8 12 ,,
5	23.335	13.97	77.0	24.82	77.3	.9250	.8359	19.41.6	H	9 12 ,,
6	22.923	15.26	75.9	24.80	76.8	.9464	.8357	19.38.9	H	10 12 ,,
7	21.415	15.41	75.6	24.70	76.6	.9496	.8346	19.37.9	H	11 12 ,,
8	21.758	15.19	75.7	24.78	76.5	.9443	.8354	19.39.0	H	Midnight.
9	22.512	16.04	75.7	24.91	76.3	.9599	.8369	19.37.4	L	1 12 a. m.
10	21.551	15.65	74.5	24.82	75.7	.9535	.8359	19.37.9	L	2 12 ,,
11	21.551	15.70	73.4	24.77	75.0	.9556	.8353	19.37.4	L	3 12 ,,
12	20.247	15.94	72.7	24.78	74.2	.9582	.8354	19.37.2	L	4 12 ,,
13	19.493	15.79	72.0	24.80	73.7	.9542	.8357	19.37.9	C	5 12 ,,
14	20.042	16.00	72.0	24.91	73.3	.9605	.8369	19.37.3	C	6 12 ,,
15	19.424	16.08	72.0	24.97	73.0	.9593	.8375	19.37.8	C	7 12 ,,
16	19.699	16.58	73.0	25.17	73.3	.9675	.8397	19.37.6	C	8 12 ,,
17	19.013	16.96	74.8	24.96	73.9	.9742	.8374	19.35.8	H	9 12 ,,
18	18.327	17.22	76.1	24.70	74.8	.9797	.8356	19.34.4	H	10 12 ,,
19	17.641	17.68	77.3	24.53	75.8	.9855	.8327	19.32.5	H	11 12 ,,
20	16.406	17.80	79.0	24.53	77.1	.9900	.8329	19.32.0	H	Noon.
21	17.641	17.52	79.4	24.67	77.7	.9847	.8342	16.29.2	L	1 12 p. m.
22	18.327	17.61	80.0	24.67	78.4	.9866	.8342	19.29.0	L	2 12 ,,
23	19.150	17.58	79.9	24.76	78.7	.9839	.8352	19.33.7	L	3 12 ,,
DEC. 18TH-Noon.	20.042	17.53	79.1	24.80	78.4	.9847	.8357	19.33.8	L	4 12 ,,
1	20.247	17.45	78.0	24.79	78.0	.9826	.8355	19.34.0	C	5 12 ,,
2	20.728	17.23	77.2	24.86	77.4	.9797	.8363	19.34.6	C	6 12 ,,
3	19.973	17.53	77.0	24.80	77.0	.9847	.8357	19.33.8	C	7 12 ,,
4	20.110	17.13	76.5	24.80	76.5	.9781	.8357	19.34.8	C	8 12 ,,
5	20.042	17.11	75.6	24.78	76.0	.9784	.8354	19.34.6	H	9 12 ,,
6	19.699	17.11	75.2	24.79	75.8	.9784	.8355	19.34.7	H	10 12 ,,
7	19.630	17.14	74.8	24.86	75.4	.9779	.8363	19.34.9	H	11 12 ,,
8	19.493	17.35	74.5	24.85	75.0	.9818	.8362	19.34.2	H	Midnight.
9	19.356	17.32	74.2	24.86	74.7	.9814	.8363	19.34.5	L	1 12 a. m.
10	19.356	17.39	74.0	24.92	74.5	.9804	.8370	19.34.9	L	2 12 ,,
11	19.424	17.48	74.0	24.99	74.5	.9822	.8377	19.34.9	L	3 12 ,,
12	19.424	17.38	73.5	24.97	74.0	.9806	.8375	19.35.0	L	4 12 ,,
13	19.836	17.28	73.4	25.07	74.0	.9789	.8386	19.35.6	C	5 12 ,,
14	20.247	17.24	73.0	25.10	73.9	.9795	.8390	19.35.7	C	6 12 ,,
15	19.699	17.13	73.0	25.15	73.5	.9781	.8395	16 36.2	C	7 12 ,,
16	20.179	17.72	73.8	25.13	73.5	.9879	.8393	19.34.8	C	8 12 ,,
17	20.110	17.66	74.8	25.07	73.9	.9857	.8386	19.34.7	H	9 12 ,,
18	19.699	18.00	76.0	24.85	74.9	.9932	.8362	19.32.8	H	10 12 ,,
19	19.630	18.02	77.3	24.79	75.9	.9936	.8355	19.32.6	H	11 12 ,,
20	20.247	18.19	79.0	24.75	77.1	.9962	.8351	19.32.1	H	Noon.
21	20.385	18.31	80.5	24.55	78.4	.9982	.8329	19.31.0	L	1 12 p. m.
22	19.767	18.15	81.5	24.48	79.2	.9956	.8321	19.30.9	L	2 12 ,,
23	20.316	18.11	81.5	24.57	79.7	.9949	.8331	19.31.4	L	3 12 ,,
DEC. 20TH-Noon.	19.081	18.48	81.9	24.50	80.1	8.0009	.8324	19.30.4	C	4 12 ,,
1	19.218	18.27	80.8	24.54	79.9	7.9976	.8328	19.31.0	C	5 12 ,,
2	19.424	18.29	79.4	24.63	79.1	.9978	.8338	19.31.4	C	6 12 ,,
3	19.287	18.05	78.5	24.65	78.8	.9940	.8340	19.31.0	C	7 12 ,,
4	20.042	17.70	78.0	24.64	78.0	.9883	.8339	19 32.7	C	8 12 ,,
5	19.767	17.58	76.9	24.62	77.6	.9839	.8337	19.33.2	H	9 12 ,,
6	19.287	17.73	76.0	24.65	77.8	.9879	.8340	19.32.9	H	10 12 ,,
7	19.493	17.86	75.5	24.64	76.7	.9890	.8339	19.32.5	H	11 12 ,,
8	19.424	17.91	74.9	24.66	76.3	.9915	.8341	19.32.2	H	Midnight.
9	19.013	18.03	74.7	24.67	75.8	.9936	.8342	19.32.0	L	1 12 a. m.
10	19.150	18.01	74.3	24.74	75.5	.9933	.8350	19.32.5	L	2 12 ,,
11	18.875	18.10	74.4	24.74	75.3	.9948	.8350	19.32.2	L	3 12 ,,

On the 17th, at about 19h., Dip as obtained by Observation, was 18°57'2.
On the 18th, at about 20h., Deflection Observations were taken, and new Fibres put to the Vibration Apparatus.

DAILY OBSERVATIONS FROM 20TH TO 22ND DECEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Horizontal Force Magnetometer.	Vertical Force Magnetometer. Scale Readings Corrected for Temperature.	Thermometer of Vertical Force Magnetometer.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Dec. 20th—12	19·013	17.99	73·8	24.79	75·0	7.9902	2.8355	19°33′1	L	4 12 a.m.
13	18.875	17.88	73.2	24.80	74.8	.9888	.8357	19.33.3	C	5 12 ,,
14	18.601	18.07	73.9	24.90	74.6	.9943	.7368	19.33.0	C	6 12 ,,
15	19.321	17.85	74.0	24.98	74.6	.9892	.9386	19.34.3	C	7 12 ,,
16	19.013	18.05	75.0	22.96	74.7	.9940	.8374	19.33.2	C	8 12 ,,
17	19.150	18.29	76.4	24.83	75.0	8.0078	.8360	19.32.2	H	9 12 ,,
18	19.287	18.60	78.0	24.68	76.1	7.0030	.8353	19.31.3	H	10 12 ,,
19	19.013	18.73	79.5	24.61	77.1	.0050	.8336	19.30.4	H	11 12 ,,
20	18.875	18.97	80.7	24.62	78.5	.0091	.8337	19.29.9	H	Noon.
21	19.356	18.99	82.1	24.55	79.9	.0093	.8329	19.29.5	L	1 12 p.m.
22	19.561	19.00	83.2	24.48	81.0	.0095	.8321	19.29.1	L	2 12 ,,
23	19.150	19.01	84.0	24.40	81.5	.0096	.8313	19.28.8	L	3 12 ,,
Dec. 21st-Noon.	19.081	18.86	83.5	24·49	81.3	.0064	.8322	19.29.6	L	4 12 ,,
1	19.013	18.53	81.7	24.53	80.6	.0017	.8327	19.30.4	C	5 12 ,,
2	19.150	18.45	80.5	24.60	80.0	.0005	.8335	19.30.9	C	6 12 ,,
3	19.424	18.24	79.4	24.69	79.6	.9970	.8344	19.31.7	C	7 12 ,,
4	18.944	18.08	79.0	24.72	79.1	.9954	.8348	19.32.1	C	8 12 ,,
5	19.081	17.80	77.9	24.66	78.7	.9900	.8341	19.32.5	C	9 12 ,,
6	19.493	17.87	76.9	24.50	78.0	.9888	.8324	19.31.9	H	10 12 ,,
7	19.561	17.92	76.5	24.53	77.7	.9912	.8327	19.31.9	H	11 12 ,,
8	19.561	18.13	76.5	24.54	77.1	.9952	.8328	19.31.3	H	Midnight.
9	19.561	17.99	76.0	24.59	76.9	.9902	.8333	19.32.2	H	1 12 a.m.
10	19.424	18.13	75.9	24.59	76.6	.9952	.8333	19.31.5	H	2 12 ,,
11	19.561	18.17	75.9	24.67	76.5	.9960	.8342	19.31.7	C	3 12 ,,
12	19.218	18.23	76.0	24.64	76.4	.9968	.8339	19.31.5	C	4 12 ,,
13	19.150	18.13	75.2	24.63	76.1	.9952	.8338	19.31.7	C	5 12 ,,
14	19.493	18.23	75.1	24.67	76.0	.9968	.8342	19.31.6	C	6 12 ,,
15	18.670	18.09	75.0	24.82	75.5	.9946	.8359	19.32.5	C	7 12 ,,
16	19.493	18.40	75.1	24.89	75.5	.9997	.8366	19.32.1	C	8 12 ,,
17	20.247	18.61	76.6	24.88	75.9	8.0031	.8365	19.31.7	H	9 12 ,,
18	20.590	19.01	78.0	24.70	76.6	.0096	.8346	19.30.1	H	10 12 ,,
19	20.316	19.24	79.5	24.46	77.7	.0134	.8319	19.28.6	H	11 12 ,,
20	19.561	19.25	80.0	24.32	78.3	.0136	.8304	19.27.9	H	Noon.
21	19.287	19.13	80.3	24.26	78.9	.0116	.8297	19.27.9	L	1 12 p.m.
22	19.081	19.09	80.7	24.02	79.4	.0109	.8271	19.27.0	L	2 12 ,,
23	19.493	19.03	81.0	24.11	79.7	.0099	.8281	19.27.5	L	3 12 ,,
Dec. 22nd-Noon.	19.973	18.95	80.5	24.17	79.5	.0087	.8287	19.27.9	L	4 12 ,,
1	19.630	18.74	79.6	24.12	79.1	.0052	.8282	19.28.1	C	5 12 ,,
2	19.424	18.68	78.8	24.13	78.7	.0042	.8283	19.28.4	C	6 12 ,,
3	19.356	18.42	78.4	24.16	78.7	.0001	.8286	19.29.0	C	7 12 ,,
4	19.150	18.37	78.1	24.03	78.4	7.9993	.8272	19.28.5	C	8 12 ,,
5	19.424	18.25	77.5	23.98	77.7	.9972	.8266	19.28.6	H	9 12 ,,
6	19.287	18.20	76.6	24.02	77.2	.9964	.8271	19.28.9	H	10 12 ,,
7	19.493	18.20	75.9	23.91	76.9	.9964	.8259	19.28.5	H	11 12 ,,
8	19.493	18.20	75·6	23.94	76.4	.9964	.8262	19.28.5	H	Midnight.
9	19.356	18.17	75.1	23.92	76.0	.9960	.8260	19.28.5	L	1 12 a.m.
10	19.287	18.20	74.3	23.91	75.8	.9964	.8259	19.28.5	L	2 12 ,,
11	19.493	18.21	74.7	23.91	75.4	.9965	.8259	19.28.4	L	3 12 ,,
12	19.287	18.20	74.5	23.94	75.3	.9964	.8262	19.28.5	L	4 12 ,,
13	18.944	18.19	74.1	23.89	75.1	.9962	.8256	19.28.4	C	5 12 ,,
14	18.944	18.12	74.0	23.97	75.0	.9952	.8265	19.28.8	C	6 12 ,,
15	18.464	18.12	74.0	23.99	74.6	.9952	.8267	19.28.9	C	7 12 ,,
16	18.738	18.36	74.6	24.14	74.8	.9991	.8284	19.29.0	C	8 12 ,,
17	19.699	18.59	75.6	24.10	75.0	8.0027	.8280	19.28.4	H	9 12 ,,
18	19.356	18.91	77.3	24.08	75.9	.0080	.8288	19.28.1	H	10 12 ,,
19	18.807	19.16	78.5	23.97	76.8	.0122	.8265	19.26.6	H	11 12 ,,
20	18.670	19.43	79.9	23.88	78.0	.0165	.8257	19.25.8	H	Noon.,
21	19.218	19.35	81.4	23.89	79.5	.0152	.8256	19.25.9	L	1 12 p.m.
22	19.630	19.43	82.3	23.89	80.2	.0165	.8256	19.25.7	L	2 12 ,,
23	20.042	18.75	81.5	23.93	80.2	.0054	.8261	19.27.3	L	3 12 ,,

On the 21st, at about 19h., Dip as obtained by Observation was 19°26′9.
The handle of Y supports of Vertical Force raised a little at 21h.

DAILY OBSERVATIONS FROM 23RD TO 27TH DECEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizon-tal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Dec. 23rd-Noon.	19°630	18.32	80°4	23.97	79°8	7.9985	2.8265	19°28′3	L	4 12 p. m.
1	19.699	18.27	79.1	23.95	79.1	.9976	.8263	19.28.4	C	5 12 „
2	19.356	18.37	78.6	23.95	78.7	.9993	.8263	19.28.2	C	6 12 „
3	19.424	18.24	78.4	23.99	78.5	.9970	.8267	19.28.7	C	7 12 „
4	21.139	18.04	78.0	24.03	78.0	.9938	.8272	19.29.2	C	8 12 „
5	19.836	17.65	77.4	23.73	77.5	.9859	.8239	19.29.0	H	9 12 „
6	19.836	17.74	76.6	23.79	77.0	.9877	.8245	19.29.1	H	10 12 „
7	19.836	18.01	75.8	23.78	76.6	.9933	.8244	19.28.3	H	11 12 „
8	19.424	18.33	75.0	23.80	76.1	.9985	.8247	19.27.7	H	Midnight.
9	19.287	18.10	75.0	23.83	75.7	.9948	.8250	19.28.3	L	1 12 a. m.
10	19.150	18.05	74.8	23.83	75.5	.9940	.8250	19.28.5	L	2 12 „
11	18.532	17.97	74.0	23.80	75.0	.9904	.8247	19.28.9	L	3 12 „
12	18.464	17.89	73.6	23.81	74.6	.9886	.8248	19.29.0	L	4 12 „
13	17.915	18.14	73.9	23.86	74.6	.9954	.8253	19.28.4	C	5 12 „
14	18.121	18.23	74.0	23.95	74.5	.9968	.8363	19.28.5	C	6 12 „
15	18.532	18.07	74.0	24.00	74.4	.9944	.8269	19.29.1	C	7 12 „
16	19.218	18.38	74.6	24.04	74.7	.9993	.8273	19.29.6	C	8 12 „
17	20.316	18.56	75.8	24.10	74.9	8.0023	.8280	19.28.5	H	9 12 „
18	20.110	18.73	76.9	24.05	75.5	.0050	.8274	19.27.8	H	10 12 „
19	20.110	18.79	78.3	24.00	76.6	.0060	.8269	19.27.5	H	11 12 „
20	19.973	18.68	79.8	23.94	78.0	.0042	.8262	19.27.5	H	Noon.
21	20.385	18.60	81.3	23.84	79.1	.0030	.8251	19.27.3	L	1 12 p. m.
22	19.904	18.32	82.0	23.73	79.6	7.9985	.8239	19.27.3	L	2 12 „
23	18.875	18.25	81.8	23.70	79.9	.9972	.8236	19.27.5	L	3 12 „
Dec. 25th-Noon.	19.630	18.71	81.0	23.90	80.0	8.0047	.8258	19.27.3	C	4 12 „
1	19.493	18.38	79.6	23.97	79.3	7.9993	.8265	19.28.3	C	5 12 „
2	19.699	18.53	78.7	24.01	78.9	8.0017	.8270	19.28.1	C	6 12 „
3	19.493	18.27	78.0	23.98	78.5	7.9976	.8266	19.28.5	C	7 12 „
4	19.287	18.27	77.8	24.01	78.0	.9976	.8270	19.28.7	C	8 12 „
5	19.424	18.23	77.4	23.93	77.7	.9968	.8261	19.28.4	H	9 12 „
6	19.493	18.24	76.7	23.96	77.1	.9970	.8264	19.28.5	H	10 12 „
7	19.424	18.25	75.7	23.93	76.7	.9972	.8261	19.28.4	H	11 12 „
8	19.356	18.31	75.2	23.92	76.0	.9982	.8260	19.28.3	H	Midnight.
9	18.944	18.34	74.6	23.84	75.9	.9987	.8251	19.27.8	L	1 12 a. m.
10	18.532	18.59	74.7	23.83	75.5	8.0027	.8250	19.27.3	L	2 12 „
11	18.395	18.53	74.8	23.86	75.4	.0017	.8253	19.27.5	L	3 12 „
12	18.395	18.54	74.7	23.87	75.0	.0019	.8254	19.27.5	L	4 12 „
13	18.395	18.45	74.3	24.06	75.0	.0005	.8275	19.28.5	C	5 12 „
14	18.018	18.46	74.0	24.06	74.6	.0007	.8275	19.28.5	C	6 12 „
15	18.464	18.29	74.1	24.04	74.1	7.9978	.8273	19.28.8	C	7 12 „
16	18.875	18.64	75.0	24.11	74.5	8.0036	.8281	19.28.3	C	8 12 „
17	19.424	19.01	76.3	24.05	75.0	.0096	.8274	19.27.2	H	9 12 „
18	19.561	19.14	77.8	23.97	75.9	.0118	.8255	19.26.3	H	10 12 „
19	18.944	19.17	78.9	23.94	76.9	.0124	.8252	19.26.1	H	11 12 „
20	18.875	19.32	80.4	23.89	78.2	.0149	.8256	19.25.9	H	Noon.
21	19.013	19.23	81.3	23.90	79.2	.0132	.8258	19.26.3	L	1 12 p. m.
22	19.013	19.11	81.4	23.93	79.7	.0113	.8261	19.26.6	L	2 12 „
23	18.464	19.01	81.0	23.93	79.7	.0096	.8261	19.26.7	L	3 12 „
Dec. 27th-Noon.	18.121	19.21	80.9	23.91	79.8	.0129	.8259	19.26.3	C	4 12 „
1	18.601	18.71	79.0	23.97	79.0	.0047	.8265	19.27.5	C	5 12 „
2	19.218	18.51	78.0	23.97	78.4	.0014	.8265	19.28.1	C	6 12 „
3	19.218	18.50	77.6	23.92	78.0	.0013	.8260	19.27.9	C	7 12 „
4	19.218	18.49	76.9	23.93	77.7	.0011	.8261	19.27.9	C	8 12 „
5	19.218	18.38	76.3	23.91	77.1	7.9931	.8259	19.28.3	H	9 12 „
6	19.630	18.19	75.6	23.95	76.6	.9962	.8263	19.28.6	H	10 12 „
7	19.081	18.37	75.0	23.94	76.2	.9993	.8262	19.28.1	H	11 12 „
8	19.356	18.26	74.7	23.92	75.7	.9974	.8260	19.28.4	H	Midnight.
9	19.767	18.04	74.2	23.93	75.3	.9938	.8261	19.28.8	L	1 12 a. m.
10	18.807	18.24	74.2	23.92	75.0	.9870	.8260	19.28.4	L	2 12 „
11	18.738	18.25	74.4	23.97	74.9	.9972	.8265	19.28.6	L	3 12 „

On the 25th, at about 20h., the Deflection Observations were taken.

DAILY OBSERVATIONS FROM 27TH TO 29TH DECEMBER 1857.

Date. Gottingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
Dec. 27th—12	19°013	18.35	74°3	23.96	74°6	8.9989	2.8264	19°28′2	L	4 12 p. m.
13	18.670	18.36	74.0	23.97	74.4	.9991	.8265	19.28.3	C	5 12 „
14	18.464	18.38	73.7	23.98	74.0	.9993	.8266	19.28.3	C	6 12 „
15	18.121	18.39	73.8	24.07	74.0	.9995	.8276	19.28.6	C	7 12 „
16	19.150	18.26	74.3	24.17	74.0	.9974	.8287	19.29.5	C	8 12 „
17	20.728	18.21	75.0	24.18	74.3	.9965	.8288	19.29.5	H	9 12 „
18	20.728	18.37	76.6	24.05	75.0	.9993	.8274	19.28.6	H	10 12 „
19	20.522	18.29	77.9	23.93	76.0	.9978	.8261	19.28.1	H	11 12 „
20	19.836	18.00	79.0	23.86	77.3	.9932	.8253	19.28.7	H	Noon.
21	19.973	17.74	80.7	23.78	78.7	.9877	.8244	19.29.0	L	1 12 p. m.
22	19.769	17.65	82.1	23.78	80.0	.9859	.8244	19.29.2	L	2 12 „
23	19.150	17.55	82.9	23.80	80.8	.9843	.8247	19.29.7	L	3 12 „
Dec. 28th-Noon.	18.944	17.63	82.7	23.87	80.8	7.9863	.8254	19.29.6	L	4 12 „
1	19.013	17.49	80.9	23.92	79.9	.9820	.8260	19.30.3	C	5 12 „
2	19.356	17.33	79.1	23.97	79.0	.9814	.8265	19.30.7	C	6 12 „
3	19.493	17.05	77.9	23.96	78.1	.9761	.8264	19.31.2	C	7 12 „
4	20.247	17.09	77.1	24.01	77.7	.9755	.8270	19.31.5	C	8 12 „
5	20.728	17.30	76.7	24.01	77.1	.9818	.8270	19.30.7	H	9 72 „
6	20.453	17.07	76.0	24.05	76.8	.9757	.8274	19.31.6	H	10 12 „
7	20.522	17.00	75.5	24.02	76.3	.9769	.8271	19.31.4	H	11 12 „
8	20.933	17.27	75.1	24.01	76.0	.9789	.8270	19.31.1	H	Midnight.
9	20.590	17.58	75.0	24.07	75.6	.9839	.8276	19.30.7	L	1 12 a. m.
10	20.227	17.72	75.0	24.11	75.4	.9879	.8281	19.30.4	L	2 12 „
11	19.561	17.79	74.8	24.10	75.0	.9869	.8280	19.30.5	L	3 12 „
12	19.356	18.07	74.7	24.09	74.8	.9944	.8278	19.29.5	L	4 12 „
13	18.738	17.99	74.2	24.12	74.2	.9902	.8282	19.30.1	C	5 12 „
14	19.081	18.01	73.8	24.12	74.0	.9933	.8282	19.29.7	C	6 12 „
15	18.601	18.05	73.9	24.10	74.0	.9940	.8280	19.29.6	C	7 12 „
16	18.944	18.42	74.8	24.15	74.2	8.0001	.8285	19.29.0	C	8 12 „
17	18.875	18.71	75.9	24.10	74.8	.0047	.8280	19.28.1	H	9 12 „
18	18.464	19.08	78.0	24.06	76.0	.0107	.8275	19.27.2	H	10 12 „
19	18.464	19.28	79.5	24.03	77.0	.0140	.8272	19.26.6	H	11 12 „
20	18.944	19.42	80.4	24.08	78.5	.0165	.8277	19.26.5	H	Noon.
21	19.493	19.43	81.7	24.07	79.5	.0165	.8276	19.26.4	L	1 12 p. m.
22	19.287	19.17	82.2	23.98	80.0	.0124	.8266	19.26.6	L	2 12 „
23	19.081	18.91	82.1	23.99	80.3	.0080	.8267	19.27.3	L	3 12 „
Dec. 29th-Noon.	19.150	18.59	81.3	24.02	80.0	.0029	.8271	19.28.0	L	4 12 „
1	19.287	18.43	80.0	24.06	79.3	.0001	.8275	19.28.6	C	5 12 „
2	19.218	18.25	79.0	24.06	78.5	7.9972	.8275	19.29.0	C	6 12 „
3	19.287	17.98	78.0	23.86	78.0	.9904	.8253	19.29.1	C	7 12 „
4	19.356	17.97	77.2	23.87	77.4	.9904	.8254	19.29.1	C	8 12 „
5	19.424	18.11	76.7	23.93	77.0	.9949	.8261	19.28.6	H	9 12 „
6	19.424	18.10	75.9	23.93	76.5	.9948	.8261	19.28.6	H	10 12 „
7	19.424	18.21	75.4	23.93	76.1	.9965	.8261	19.28.4	H	11 12 „
8	19.081	18.29	75.0	23.92	75.8	.9978	.8260	19.28.3	H	Midnight.
9	18.944	18.42	74.8	23.99	75.5	.9991	.8267	19.28.4	L	1 12 a. m.
10	18.738	18.52	74.7	23.98	75.2	8.0017	.8266	19.27.9	L	2 12 „
11	18.670	18.49	74.4	23.99	75.0	.0011	.8267	19.28.2	L	2 12 „
12	18.601	18.57	74.2	23.99	74.8	.0025	.8267	19.27.9	L	4 12 „
13	18.258	18.56	74.0	23.95	74.2	.0023	.8263	19.27.8	C	5 12 „
14	17.984	18.60	73.6	23.97	74.0	.0030	.8265	19.27.8	C	6 12 „
15	17.984	18.53	73.5	24.02	73.7	.0017	.8271	19.28.1	C	7 12 „
16	18.258	18.96	74.4	24.11	74.0	.0089	.8281	19.27.6	C	8 12 „
17	20.316	19.19	75.6	24.13	74.3	.0126	.8283	19.27.2	H	9 12 „
18	20.728	19.47	76.8	24.03	75.0	.0173	.8272	19.26.2	H	10 12 „
19	20.453	19.43	77.9	24.04	76.3	.0165	.8273	19.26.3	H	11 12 „
20	19.904	19.56	79.8	24.03	77.9	.0187	.8272	19.25.9	H	Noon.
21	20.590	19.52	81.1	23.97	79.1	.0181	.8265	19.25.8	L	1 12 p. m.
22	20.042	19.53	82.6	24.16	80.3	.0181	.8286	19.26.7	L	2 12 „
23	18.738	19.39	83.0	*		.0155			L	3 12 „

On the 28th, at about 19h., Dip as obtained by Observation was 19°05′0.

* Vertical Force under adjustment.

DAILY OBSERVATIONS FROM 30TH TO 31ST DECEMBER 1857.

Date. Göttingen Mean Time. 1857.	Eastern Declination.	Horizontal Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Horizontal Force Magneto-meter.	Vertical Force Magneto-meter. Scale Readings Corrected for Temperature.	Thermo-meter of Vertical Force Magneto-meter.	Absolute Horizontal Force. In English Units.	Absolute Vertical Force. In English Units.	Computed Dip.	Observers.	Date. Bombay Civil Time. 1857.
h.										h. m.
DEC. 30TH-Noon.	18°052	19.19	81°9	22.61	80°5	8.0126	2.8127	19°21'3	L	4 12 p. m.
1	18.327	18.97	80.4	22.91	80.0	.0091	.8149	19.22.5	C	5 12 ,,
2	18.575	18.82	79.1	23.15	78.9	.0067	.8175	19.23.8	C	6 12 ,,
3	20.522	18.83	78.0	23.23	78.0	.0067	.8184	19.24.1	C	7 12 ,,
4	20.796	18.80	77.4	23.38	77.3	.0063	.8210	19.25.3	C	8 12 ,,
5	20.728	18.57	76.5	23.39	77.0	.0025	.8211	19.25.7	H	9 12 ,,
6	20.796	18.57	75.9	23.29	76.4	.0025	.8190	19.24.9	H	10 12 ,,
7	20.522	18.59	75.4	23.25	76.0	.0027	.8186	19.24.7	H	11 12 ,,
8	20.728	18.57	74.7	23.28	75.4	.0025	.8189	19.24.8	H	Midnight.
9	20.590	18.69	74.7	23.23	75.4	.0044	.8184	19.24.5	L	1 12 a. m.
10	20.590	18.68	74.8	23.24	75.3	.0042	.8185	19.24.6	L	2 12 ,,
11	20.042	18.76	74.6	23.28	75.0	.0056	.8189	19.24.4	L	3 12 ,,
12	19.699	18.89	74.4	23.36	74.7	.0068	.8198	19.24.7	L	4 12 ,,
13	19.390	18.88	74.1	23.38	74.4	.0066	.8210	19.25.2	C	5 12 ,,
14	18.121	19.09	74.0	23.27	74.0	.0109	.8188	19.23.8	C	6 12 ,,
15	18.395	19.15	73.9	23.58	73.9	.0120	.8222	19.24.9	C	7 12 ,,
16	19.630	19.42	74.3	23.81	74.0	.0165	.8248	19.25.4	C	8 12 ,,
17	20.522	19.84	75.5	23.72	74.1	.0232	.8238	19.24.2	H	9 12 ,,
18	20.659	19.86	76.7	23.49	75.0	.0236	.8212	19.23.0	H	10 12 ,,
19	20.865	19.94	77.9	23.32	76.0	.0249	.8194	19.22.1	H	11 12 ,,
20	21.071	19.99	79.4	23.29	77.5	.0267	.8190	19.21.9	H	Noon.
21	21.619	19.97	81.0	23.24	78.8	.0255	.8185	19.21.7	L	1 12 p. m.
22	21.071	19.85	82.3	22.85	80.1	.0234	.8142	19.20.4	L	2 12 ,,
23	20.316	19.63	82.8	22.72	80.7	.0198	.8128	19.20.3	L	3 12 ,,
DEC. 31ST-Noon.	20.042	19.33	82.1	22.79	80.3	.0149	.8135	19.21.2	L	4 12 ,,
1	20.385	19.12	80.5	22.99	79.6	.0116	.8157	19.22.5	C	5 12 ,,
2	20.453	18.83	79.0	23.04	71.7	.0067	.8171	19.23.6	C	6 12 ,,
3	20.110	18.78	77.9	23.04	77.8	.0058	.8163	19.23.4	C	7 12 ,,
4	20.281	18.74	77.0	23.12	77.0	.0052	.8172	19.23.8	C	8 12 ,,
5	20.042	18.56	76.4	23.20	76.8	.0023	.8181	19.24.6	H	9 12 ,,
6	19.699	18.56	75.8	23.22	76.4	.0023	.8183	19.24.7	H	10 12 ,,
7	20.316	18.63	75.5	23.29	76.0	.0038	.8190	19.24.9	H	11 12 ,,
8	20.179	18.82	75.2	23.31	75.8	.0067	.8193	19.24.5	H	Midnight.
9	19.630	18.90	75.3	23.27	75.6	.0079	.8188	19.24.2	L	1 12 a. m.
10	19.904	18.77	75.0	23.27	75.1	.0058	.8188	19.24.4	L	2 12 ,,
11	19.287	18.67	74.5	23.31	74.6	.0042	.8193	19.24.9	L	3 12 ,,
12	19.013	18.82	74.3	23.40	74.4	.0067	.8203	19.24.9	L	4 12 ,,
13	19.013	18.81	73.8	23.33	74.1	.0064	.8195	19.24.8	C	5 12 ,,
14	18.464	18.93	73.5	23.43	73.9	.0083	.8206	19.24.9	C	6 12 ,,
15	18.052	19.02	73.6	23.68	73.7	.0099	.8233	19.25.7	C	7 12 ,,
16	20.110	19.53	74.7	23.93	74.1	.0181	.8261	19.25.7	C	8 12 ,,
17	22.101	19.64	75.9	24.04	74.7	.0200	.8273	19.25.9	H	9 12 ,,
18	22.237	20.07	77.4	23.61	75.6	.0271	.8226	19.23.2	H	10 12 ,,
19	21.276	20.17	79.4	23.19	77.0	.0288	.8179	19.21.0	H	11 12 ,,
20	20.453	20.53	81.4	23.04	78.7	.0345	.8163	19.19.6	H	Noon.
21	20.659	20.14	82.2	23.01	79.8	.0282	.8160	19.20.5	L	1 12 p. m.
22	20.659	19.98	82.8	22.79	80.8	.0255	.8135	19.19.8	L	2 12 ,,
23	19.836	19.68	83.2	22.54	81.4	.0206	.8108	19.19.4	L	3 12 ,,

On the 30th, Vertical Force readjusted for the New Year.
On the 31st, at about 19h., Dip as obtained by Observation was 19°10'0.

OBSERVATIONS OF INCLINATION,

1857.

NOTE.—*These Observations were taken with a Dip Circle made by Henry Barrow.*

OBSERVATIONS OF INCLINATION, 1857.

Made at Bombay about 1½ hour before Noon.

Date. Bombay Mean Time.	POLES DIRECT. Face of Needle. Direct.		Reversed.		POLES REVERSED. Face of Needle. Direct.		Reversed.		Mean.	Monthly Mean.
	a	*a'*	*a''*	*a'''*	*b*	*b'*	*b''*	*b'''*		
JAN. 2	19°22′5	18°12′5	19°42′5	19°20′0	18°27′5	19°05′0	19°15′0	18°07′5	18°56′5	
6	18·20.0	18.02.5	19.00.0	19.35.0	18.50.0	20.00.0	18.47.5	18.27.5	18.52.8	
9	18.57.5	17.22.5	19.12.5	18.50.0	19.30.0	19.25.0	19.12.5	19.40.0	19.01.2	
13	19.00.0	17.30.0	18.40.0	18.22.5	19.07.5	19.40.0	19.37.5	18.57.5	18.59.4	
16	18·27.5	17.42.5	19.10.0	19.10.0	18.12.5	19.40.0	19.47.5	18.52.5	18.52.8	18°58′2
20	18·50.0	17.05.0	19.07.5	19.20.0	18.22.5	20.00.0	20.00.0	18.45.0	18.56.2	
23	19.00.0	17.10.0	18.50.0	19.25.0	19.20.0	19.55.0	20.05.0	18.30.0	18.57.5	
27	18·30.0	17.00.0	19.02.5	19.05.0	20.10.0	19.47.5	19.32.5	18.15.0	18.55.3	
30	20·20.0	20.15.0	19·42·5	18.27.5	18.20.0	18.00.0	19.10.0	19.25.0	19.12.5	
FEB. 3	18·45.0	18.07.5	19 17.5	19.30.0	19.32.5	20.20.0	19.35.0	18.57.5	19.18.8	
6	19·00.0	17.57.5	19·15.0	18.10.0	19.22.5	20.15.0	19.25.0	18.27.5	18.59.1	
10	18.10.0	17.52.5	19·12.5	19.15.0	19.42.5	20.50.0	20.00.0	18.20.0	19.03.5	
13	18.30.0	17.20.0	18.52.5	18.35.0	18.45.0	20.00.0	19.25.0	18.05.0	18.49.0	
17	18.10.0	17.25.0	18.55.0	19.05.0	18.32.5	20.05.0	19.40.0	18.10.0	18.45.3	18.56.8
20	18·30.0	17.45.0	19.02.0	19.12.5	18.37.5	19.35.0	19.40.0	18.32.5	18.51.9	
24	18.40.0	16.50.0	18.55.0	19.35.0	18.57.5	19.12.5	19.40.0	18.42.5	18.49.0	
27	18.10.0	17.30.0	19.40.0	18.40.0	18.52.5	20.00.0	19.40.0	18.47.5	18.55.0	
MAR. 3	18.20.0	16.55.0	19.20.0	19.15.0	18.35.0	19.42.5	19.30.0	18.27.5	18.45.6	
6	18.40.0	17.20.0	19.40.0	19.25.0	19.50.0	18.52.5	19.10.0	19.15.0	19.01.3	
10	18.25.0	17.40.0	18.52.5	19.05.0	18.37.5	19.35.0	19.35.0	19.05.0	18.51.9	
13	18·47·5	18·22.5	19.20.0	19.10.0	18.52.5	19.50.0	19.17.5	18.57.5	19.03.8	18.58.8
17	18.27.5	17·10.0	19.30.0	19.12.5	20.02.5	20.25.0	19.35.0	18.30.0	19.06.5	
20	18.50.0	17.45.0	18.30.0	19.20.0	19.02.5	29.20.0	19.27.5	18.32.5	18.58.4	
24	18.10.0	18.22.5	19.15.0	19.25.0	19.20.0	19.20.0	19.20.0	18.47.5	19.00.0	

OBSERVATIONS OF INCLINATION, 1857.

Made at Bombay about 1½ hour before Noon.

Date. Bombay Mean Time.	POLES DIRECT. Face of Needle. Direct.		Reversed.		POLES REVERSED. Face of Needle. Direct.		Reversed.		Mean.	Monthly Mean.
	a	*a'*	*a''*	*a'''*	*b*	*b'*	*b''*	*b'''*		
MAR. 27	18°40'0	18°00'0	19°35'0	19°17'5	18°40'0	19°37'5	19°35'0	18°42'5	19°00'9	
31	81.42.5	18.50.0	19.27.5	19.05.0	18.40.0	19.25.0	19.20.0	18.35.0	19.00.6	
APR. 3	18.50.0	17.22.5	18.57.5	19.30.0	19.50.0	19.30.0	19.20.0	18.27.5	18.58.4	
7	18.40.0	17.55.0	19.10.0	19.35.0	19.10.0	19.52.5	19.20.0	18.30.0	19.01.5	
14	18.10.0	17.50.0	19.20.0	19.30.0	19.00.0	19.40.0	19.57.5	18.52.5	19.02.5	18°58'7
17	18.27.5	18.00.0	19.02.5	18.40.0	18.55.0	19.27.5	19.05.0	18.40.0	18.47.2	
24	18.20.0	17.20.0	19.25.0	19.35.0	19.00.0	19.32.5	19.37.5	18.27.5	18.54.7	
28	18.02.5	19.05.0	19.25.0	19.00.0	18.57.5	20.25.0	19.57.5	28.12.5	19.08.1	
MAY 1	19.10.0	17.10.0	18.45.0	18.30.0	19.10.0	20.10.0	20.00.0	18.25.0	18.55.0	
5	18.10.0	18.37.5	19.35.0	19.20.0	18.55.0	19.55.0	19.20.0	18.40.0	19.05.3	
8	17.37.5	18.47.5	19.22.5	19.02.5	19.35.0	19.42.5	19.27.5	18.52.5	18.55.9	
12	18.02.5	17.32.5	19.32.5	18.32.5	18.57.5	19.52.5	19.05.0	18.52.5	18.47.8	
15	17.50.0	18.20.0	18.52.5	18.55.0	19.35.0	20.25.0	19.47.5	19.17.5	18.02.2	18.56.4
19	18.17.5	17.35.0	18.50.0	18.55.0	20.15.0	20.10.0	19.22.5	18.02.5	18.55.9	
22	18.15.0	17.57.5	19 20.0	19.15.0	19.47.5	19.50.0	19.20.0	18.07.5	18.59.0	
26	18.00.0	18.00.0	19.17 5	19.20.0	19.05.0	20.00.0	19.17.5	17.45.0	18.50.6	
29	18.50.0	18.17.5	18.50.0	19.57.5	19.30.0	19.50.0	19.37.5	18.37.5	18.55.6	
JUNE 2	18.12.5	18.17.5	19.10.0	19.00.0	20.25.0	20.12 5	19.27.5	21.20.0	19.30.6	
5	18.37.5	18.20.0	19.10.0	18.47.5	19.22.5	19.55.0	19.22.5	19.00.0	19.04.4	
9	18.30.0	17.10.0	19.10.0	18.50.0	19.27.5	19.40.0	19.22.5	20.30.0	19.07.5	
12	18.27.5	18.10.0	19.15.0	18.15.0	18.37.5	20.25.0	19.52.5	18.05.0	18.53.4	
16	18.40.0	18.30.0	17.47.5	18.20 0	18.57.5	20.05.0	19.42.5	18.35.0	18.49.7	19.04.8
19	18.42.5	17.20.0	19.10.0	19.05.0	19.32.5	19.45.0	19.52.5	18.35.5	19.00.6	
23	18.47.5	17.52.5	18.42.5	17.55.0	19.30.0	19.45.0	19.17.5	18.42.5	18.48.8	
26	18.37.5	18.10.0	18.42.5	18.50.0	19.50.0	19.50.0	19.52.5	20.17.5	19.16.2	
30	19.07.5	18.15.0	18.52.5	18.55.0	19.40.0	19.40.0	19.10.0	19.52.5	19.11.6	
JULY 3	18.10.0	18.12.5	19.07.5	18.45.0	19.22.5	19.57.5	19.32.5	20.12.5	19.10.0	
7	18.32.5	18.02.5	18.47.5	19.00.0	18.32.5	20.02.5	20.35.0	19.27.5	19.07.5	
10	18.42.5	18.05.0	18.52.5	18.57.5	19.57.5	19.55.0	19.55.0	20.57.5	19.25.3	
14	18.55.0	18.22.5	18.35.0	18.27.5	20.10.0	19.25.0	19.42.5	21.00.0	19.19.7	
17	19.00.0	18.20.0	19.35.0	18.15.0	18.25.0	20.12.5	19.47.5	20.55.0	19.18.8	19.13.2
21	18.32.5	17.42.5	18.32.5	18.37.5	19.25.0	19.15.0	19.27.5	00.55.0	19.04.7	
24	17.52.5	18.02.5	18.35.0	17.42.5	19.25.0	19.30.0	19.10.0	20.57.5	18.54.4	
28	18.42.5	18.00.0	19.00.0	18.57.5	19.22.5	19.47.5	19.30.0	20.50.0	19.16.2	
31	18.45.0	19.40.0	19.55.0	18.35.0	18.30.0	19.47.5	19.47.5	20.57.5	19.22.2	
AUG. 4	18.50.0	18.55.0	18.40.0	18.40.0	19.45.0	20.02.5	19.40.0	20.50.0	19.25.3	
7	18.40.0	17.50.0	18.20.0	17.57.5	19.07.5	19.50.0	19.40.0	21.05.0	19.03.1	
14	18.45.0	79.35.0	18.25.0	18.47.5	19.35.0	19.50.0	19.15.0	18.55.0	10.08.1	
18	18.55.0	19.45.0	19.37.5	19.17.5	18.42.5	19.22.5	19.35.0	19.20.0	19.19.4	19.10.9
21	18.55.0	18.17.5	18.42.5	18.77.5	19.45.0	20.20.0	19.45.0	19.52.5	19.12.2	
25	18.35.0	17.02.5	19.42.5	18.35.0	19.17.5	19.22.5	19.45.0	20.10.0	19.03.8	
28	18.10.0	17.12.5	19.42.5	19.42.5	19.27.5	20.02.5	19.35.0	18.42.5	19.04.4	
SEPT. 1	17.32.5	17.40.0	19.25.0	91.15.0	19.57.5	18.17.5	19.35.0	20.32.5	19.01.9	
4	19.00.0	18.52.5	19.30.0	18.17.5	19.45.0	18.50.0	19.10.0	18.45.0	19.01.2	
8	18.40.0	18.15.0	19.42.5	18.42.5	19.27.5	19.22.5	19.30.0	18.20.0	19.00.0	
11	18.42.5	18.40.0	18.57.5	18.55.0	19.15.0	19.20.0	19.45.0	19.57.5	19.11.6	
15	18.22.5	18.27.5	18.05.0	18.35.0	19.05.0	19.17.5	19.47.5	20.10.0	18.58.8	19.03.1
18	18.07.5	18.12.5	19.15.0	19.05.0	18.00.0	19.40.0	19.17.5	19.12.5	18.51.2	
22	18.30.0	18.27.5	19.22.5	19.17.5	19.55.0	20.10.0	19.15.0	19.02.5	19.15.0	
25	18.40.0	18.20.0	19.17.5	19.02.5	19.17.5	19.37.5	19.37.5	19.20.0	19.09.0	
29	18.27.5	18.20.0	19.15.0	19.47.5	19.02.5	19.12.5	19.22.5	19.47.5	19.09.4	

OBSERVATIONS OF INCLINATION, 1857.

Made at Bombay about 1½ hour before Noon.

Date. Bombay Mean Time.	POLES DIRECT. Face of Needle. Direct.		Reversed.		POLES REVERSED. Face of Needle. Direct.		Reversed.		Mean.	Monthly Mean.
	a	*a'*	*a''*	*a'''*	*b*	*b'*	*b''*	*b'''*		
Oct. 2	18°37′5	18°02′5	19°17′5	19°37′5	19°35′0	19°17′5	19°27′5	19°20′0	19°09′4	
6	18.15.0	18.25.0	19.22.5	19.20.0	19.57.5	19.07.5	19.12.5	19.00.0	19.01.9	
9	18.40.0	18.22.5	19.02.5	19.22.5	19.02.5	19.17.5	19.45.0	19.40.0	19.09.0	
13	18.40.0	19.10.0	19.05.0	18.47.5	19 20.0	19.00.0	19.15.0	19.00.0	19.02.2	
16	18.50.0	18.20.0	19.12.5	19.05.0	19.25.0	19.32.5	19.40.0	19.37.5	19.12.8	19°07′1
20	19.10.0	18.20.0	19.27.5	19.25.0	18.52.5	19.22.5	19.20.0	19.22.5	19.10.0	
23	19.05.0	18.12.5	19.20.0	19.30.0	19.27.5	19.27.5	19.12.5	19.07.5	19.10.3	
27	17.55.0	18.12.5	19.22.5	19.05.0	19.37.5	19.30.0	19.30.0	19.02.5	19.01.9	
30	18.20.0	18.30.0	19.37.5	19.00.0	19.27.5	19.22.5	19.27.5	19.05.0	19.06.2	
Nov. 3	18.50.0	18.25.0	19.27.5	19.37.5	19.35.0	19.32.5	19.17.5	19.00.0	19.13.0	
6	18.40.0	18.25.0	19.05.0	18.17.5	19.45.0	19.42.5	19.20.0	19.50.0	19.08.1	
10	18.42.5	18.47.5	18.47.5	18.27.5	19.17.5	19.22.5	19.27.5	19.30.0	19.02.8	
13	18.55.0	18.40.0	19.00.0	18.40.0	19.27.5	19.32.5	19.47.5	19.57.5	19.14.4	19.09.6
17	18.30.0	18.17.5	19.17.5	19.27.5	19.17.5	19.15.0	19.12.5	20.22.5	19.12.5	
20	18.55.0	18.12.5	19.37.5	19.50.0	19.20.0	19.07.5	18.37.5	20.40.0	19.16.9	
24	18.30.0	18.05.0	18.20.0	19.37.5	19.00.0	19.20.0	19.20.0	20.30.0	19.05.3	
27	18.45.0	18.27.5	18.47.5	19.10.0	19.22.5	18.47.5	19.30.0	19.37.5	19.03.5	
Dec. *4	19.40.0	19.50.0	20.20.0	20.25.0	18.00.0	19.40.0	18.50.0	16.40.0	19.10.6	
8	20.40.0	19.10.0	18.57.5	21.20.0	17.42.5	20.12.5	18.45.0	16.42.5	19.11.2	
11	20.30.0	19.32.5	18.47.5	20.47.5	18.07.5	19.47.5	18.50.0	16.57.5	19.10.3	
15	19.40.0	19.52.5	20.42.5	20.37.5	18.12.5	20.00.0	18.55.0	16.32.5	19.11.6	19.10.4
18	20.40.0	19.27.5	19.27.5	19. .'.	18.17.5	18.50.0	18.47.5	16.47.5	18.57.2	
22	20.30.0	20.32.5	20.47.5	20. ..	18.12.5	19.47.5	18.40.0	16.37.5	19.26.9	
29	19.35.0	19.40.0	19.27.5	20.'. 0	18.42.5	19.80.0	18.40.0	17.00.0	19.05.0	

* The Instrument was put in efficient repairs, and the Needle cleaned of its corrosion.

OBSERVATIONS, &c. FOR HORIZONTAL FORCE.

VIBRATIONS OF A·51, AND DEFLECTIONS OF 1·11, DURING THE YEAR 1857.

Month and Date.		Göttingen Time of Observation.	Time of one Vibration of A·51 (corrected).	Deflections of 1.11. Deflection at V = 1f. 1.	Deflection at V = 1f. 2.	Deduced Values of LM.	Absolute Horizontal Intensity.	Corresponding Readings of Large H. Force Magnetometer (uncorrected).	Attached Thermometer.	Corresponding Readings of Small H. Force Magnetometer (uncorrected).	Attached Thermometer.
	D.	H.	s.				En. Un.				
JAN.	9	19	4.058	20.585	15.839	0.0840	8.033	20.16	80·9	19.65	75·5
	*16	19	.060	.628	.882	.0841	.021	19.25	80.9	18.28	75.5
	23	20	.059	.582	.862	.0840	.030	19.30	82.0	18.08	77.0
	30	20	.057	.568	.849	.0840	.036	20.05	79.1	19.00	73.5
FEB.	6	19	.059	.570	.851	.0840	.032	20.19	81.0	18.86	75.5
	13	19	.058	.562	.837	.0839	.037	20.02	81.7	18.48	77.2
	20	19	.058	.551	.842	.0839	.037	19.89	82.6	18.85	77.5
MARCH	6	21	.058	.544	.816	.0839	.041	19.25	85.0	18.10	82.5
	13	20	.060	.540	.817	.0840	.038	19.64	83.2	18.52	80.5
	20	21	.060	.545	.816	.0840	.036	18.96	87.6	17.90	84.3
	27	22	.060	.541	.816	.0840	.040	19.05	87.8	17.88	85.4
APRIL	3	23	.060	.552	.815	.0839	.036	18.64	88.4	17.36	87.3
	8	21	.060	.537	.825	.0839	.035	19.30	86.0	18.10	83.9
	*10	22	.060	.533	.814	.0839	.039	19.10	85.6	17.65	84.0
	*17	19	.061	.535	.792	.0838	.038	19.43	85.2	18.04	84.0
	*24	19	.061	.525	.817	.0838	.036	19.10	86.6	17.28	85.5
MAY	1	20	.061	.523	.800	.0838	.040	18.80	89.4	17.67	87.9
	9	20	.063	.552	.850	.0839	.024	17.32	90.0	15.70	88.7
	16	20	.063	.533	.810	.0838	.035	18.78	88.3	16.40	85.7
	18	20	.062	.493	.763	.0837	.045	18.57	90.0	16.21	88.0
	23	20	.065	.510	.795	.0838	.034	18.67	89.6	16.37	87.5
JUNE	6	20	.064	.480	.785	.0837	.040	19.09	89.0	17.50	87.1
	13	20	.064	.505	.810	.0837	.040	19.38	87.5	17.76	84.8
	*20	20	.064	.478	.755	.0837	.044	19.42	86.7	18.40	84.9
	*27	20	.065	.518	.818	.0836	.032	19.15	85.0	18.58	83.0
JULY	4	20	.065	.458	.768	.0836	.039	19.02	86.8	17.87	84.4
	11	20	.066	.495	.792	.0836	.030	18.42	88.0	17.25	85.8
AUG.	6	20	.066	08.174	16.285	.0836	.039	19.23	82.6	18.36	80.8
	*13	20	.066	20.489	15.760	.0836	.034	19.04	84.1	18.30	81.8
	*21	20	.066	.480	.800	.0836	.034	18·67	83.4	18.30	81.0
	*29	20	.068	.512	.858	.0837	.019	18.98	84.1	18.15	82.0
SEPT.	5	21	.068	.468	.760	.0836	.032	18.53	83.0	17.75	80.2
	12	20	.068	.502	.777	.0836	.029	18.60	83.3	17.78	80.1
	22	21	.068	.460	.750	.0836	.034	18.40	82.4	17.94	80.0
	26	20	.068	.472	.752	.0836	.033	18.48	33.3	17.28	81.2
OCT.	* 3	20	.068	.470	.740	.0836	.035	18.64	84.8	16.90	82.3
	10	20	.067	.488	.780	.0836	.030	19.10	84.6	17.55	81.2
	16	21	.067	.462	.740	.0836	.036	18.40	87.0	16.84	83.6
	24	20	.067	.500	.772	.0836	.031	18.33	84.7	15.62	80.0
	31	20	.067	.487	.757	.0836	.033	18.85	84.1	16.20	80.0
NOV.	6	20	.066	.460	.752	.0835	.039	18.88	86.3	16.66	81.8
	*13	20	.066	.465	.742	.0835	.039	18.78	84.0	14.74	78.2
	20	20	.066	.472	.752	.0835	.037	19.65	81.8	13.62	76.6
	*27	20	.067	.480	.762	.0836	.033	19.31	80.9	15.00	75.2
DEC.	4	20	.057	.395	.690	.0836	.069	20.03	82.8	15.42	77.8
	11	20	.060	.465	.737	.0837	.051	20.16	80.0	14.72	74.6
	18	20	.070	.510	.777	.0837	.022	18.51	78.5	31.00	73.0
	25	21	.068	.477	.750	.0836	.033	19.17	80.9	33.76	74.0

* The observations thus marked are not used in reducing the Results. On the 6th of August a separate Scale was used to find out the Angle of Deflections.

BOMBAY MAGNETICAL OBSERVATIONS.

TERM-DAY OBSERVATIONS.

1857.

TERM-DAY OBSERVATIONS, ON THE 21ST OF JANUARY 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
0 0	19'699	19'493	19'630	19'218	18'875	19'081	19'424	20'385	20'728	20'933	20'522	20'385
5 0	19.767	19.424	19.356	19.081	18,875	19.013	19.561	20.590	20.865	20.933	20.453	20.316
10 0	19.699	19.218	19.699	19.081	19 013	19.013	19.767	20.385	20.869	20.865	20.522	20.281
15 0	19.424	19.424	19.561	19.013	19'013	18.944	19.767	20.590	20.933	20.865	20.522	20.179
20 0	19.493	19.424	19.493	19.081	18'875	18.944	19.630	20.590	20.933	20.796	20.453	20.144
25 0	19.493	19.424	19.356	18.944	18'875	19.013	19.904	20.659	21.002	20.796	20.453	20.110
30 0	19.424	19.630	19.356	19.013	18'875	19.013	19.973	20.659	21.071	20.728	20.453	20.110
35 0	19.356	19.493	19.218	18.944	18'875	19.150	19.973	20.659	21.002	20.728	20.453	20.042
40 0	19.699	19.493	19.287	18.944	18'807	19.081	20.042	20.728	21.002	20.659	20.385	20.007
45 0	19.767	19.561	19.013	19.081	18'738	19.287	20.110	20.659	21.002	20.522	20.385	20.007
50 0	19.561	19.356	19.081	19.013	18'601	19.218	20.453	20.728	21.002	20.522	20.385	19.973
55 0	19.356	19.493	19.150	19.013	18'807	19.356	20.522	20.796	21.002	20.522	20.385	19.904

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
2 0	19.32	19.34	19.43	19.56	19.80	19.75	19.76	19.72	19.73	19.46	19.34	19.22
7 0	19.40	19.35	19.46	19.60	19.71	19.82	19.73	19.71	19.70	19.46	19.33	19.21
12 0	19.32	19.39	19.49	19.56	19.81	19.71	19.71	19.73	19.65	19.44	19.31	19.20
17 0	19.36	19.41	19.43	19.58	19.80	19.73	19.71	19.73	19.63	19.42	19.32	19.18
22 0	19.35	19.35	19.49	19.60	19.87	19.75	19.71	19.73	19.60	19.40	19.31	19.18
27 0	19.38	19.40	19.51	19.57	19.81	19.74	19.71	19.73	19.57	19.42	19.29	19.16
32 0	19.41	19.40	19.54	19.57	19.75	19.70	19.68	19.71	19.52	19.41	19.28	19.15
37 0	19.41	19.45	19.59	19.64	19.79	19.77	19.68	19.70	19.53	19.40	19.29	19.15
42 0	19.45	19.45	19.51	19.66	19.79	19.76	19.71	19.74	19.51	19.38	19.27	19.15
47 0	19.43	19.43	19.50	19.65	19.85	19.76	19.70	19.72	19.50	19.38	19.27	19.13
52 0	19.49	19.46	19.57	19.68	19.84	19.71	19.73	19.76	19.50	19.37	19.26	19.12
57 0	19.34	19.43	19.50	19.82	19.79	19.77	19.74	19.74	19.48	19.36	19.24	19.08
Therm.	79°6	79°8	79°4	79°0	78°2	78°3	79°1	79°9	81°1	82°9	83°9	84°7

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
3 0	27.20	27.22	27.30	27.25	27.34	27.48	27.55	27.65	27.52	27.16	26.90	26.70
8 0	27.20	27.23	27.30	27.29	27.35	27.45	27.58	27.63	27.51	27.12	26.88	26.70
13 0	27.20	27.22	27.30	27.32	27.39	27.49	27.58	27.61	27.50	27.10	26.85	26.68
18 0	27.22	27.25	27.30	27.29	27.33	27.49	27.57	27.60	27.47	27.07	26.83	26.64
23 0	27.24	27.27	27.29	27.25	27.37	27.50	27.59	27.60	27.45	27.04	26.82	26.64
28 0	27.20	27.29	27.22	27.25	27.46	27.44	27.60	27.60	27.41	27.02	26.82	26.60
33 0	27.24	27.30	27.20	27.23	27.48	27.49	27.60	27.57	27.39	27.00	26.80	26.60
38 0	27.25	27.30	27.20	27.24	27.43	27.48	27.62	27.57	27.32	26.98	26.79	26.60
43 0	27.26	27.26	27.22	27.23	27.42	27.47	27.61	27.57	27.31	26.95	26.77	26.60
48 0	27.27	27.26	27.22	27.23	27.42	27.51	27.62	27.58	27.27	26.93	26.75	26.60
53 0	27.22	27.26	27.24	27.24	27.44	27.50	27.62	27.56	27.24	26.90	26.73	26.60
58 0	27.20	27.29	27.24	27.25	27.45	27.51	27.61	27.55	27.20	26.91	26.72	26.60
Therm.	80°4	80°4	80°0	79°7	79°1	78°8	79°0	79°4	80°1	81°1	82°6	83°3

TERM-DAY OBSERVATIONS, ON THE 21ST OF JANUARY 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
0 0	19'904	19'561	19'699	19'699	19'973	19'904	19'904	19'836	19'767	19'630	19'561	19'356
5 0	19.836	19.493	19.699	19.630	19.973	19.836	19.904	19.904	19.767	19.630	19.493	19.356
10 0	19.767	19.493	19.699	19.630	19.973	19.836	19.904	19.904	19.836	19.630	19.493	19.218
15 0	19.767	19.527	19.699	19.630	19.904	19.767	19.904	19.904	19.836	19.630	19.356	19.287
20 0	19.767	19.527	19.767	19.699	19.904	19.767	19.904	19.904	19.699	19.699	19.424	19.287
25 0	19.767	19.595	19.767	19.699	19.904	19.767	19.904	19.836	19.699	19.630	19.287	19.218
30 0	19.699	19.630	19.767	19.699	19.904	19.836	19.904	19.836	19.630	19.699	19.424	19.218
35 0	19.630	19.595	19.767	19.699	19.904	19.836	19.973	19.836	19.630	19.630	19.493	19.218
40 0	19.595	19.561	19.767	19.699	19.836	19.904	19.904	19.767	19.699	19.630	19.424	19.218
45 0	19.595	19.561	19.767	19.973	19.836	19.904	19.904	19.767	19.699	19.561	19.424	19.218
50 0	19.561	19.561	19.699	19.836	19.836	19.836	19.836	19.767	19.630	19.561	19.424	19.218
55 0	19.561	19.630	19.630	19.836	19.904	19.836	19.836	19.699	19.630	19.561	19.424	19.150

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
2 0	19.09	19.01	18.96	19.00	18.99	19.00	18.97	18.95	19.03	19.11	19.28	19.33
7 0	19.09	19.00	18.96	19.01	18.97	18.98	18.98	18.95	19.04	19.11	19.27	19.33
12 0	19.07	19.00	18.96	19.05	18.97	18.97	19.00	18.96	19.04	19.13	19.26	19.35
17 0	19.05	18.99	18.96	19.05	18.99	18.97	18.99	18.96	19.05	19.14	19.25	19.33
22 0	19.03	19.00	18.98	19.06	18.98	18.98	18.99	18.97	19.06	19.14	19.25	19.33
27 0	19.02	18.97	18.98	19.07	18.98	18.97	18.96	18.99	19.07	19.18	19.27	19.37
32 0	19.03	18.98	18.98	19.08	18.98	18.97	18.97	18.98	19.08	19.20	19.27	19.38
37 0	19.04	18.99	18.97	19.09	18.99	18.96	18.98	18.99	19.07	19.22	19.25	19.35
42 0	19.10	18.99	18.97	19.08	18.99	18.99	18.96	18.99	19.03	19.22	19.31	19.33
47 0	19.00	18.98	18.98	19.05	19.01	19.01	18.96	18.97	19.05	19.22	19.31	19.36
52 0	19.00	18.97	18.99	19.00	19.01	19.02	18.96	18.99	19.07	19.25	19.30	19.36
57 0	19.00	18.95	18.99	19.00	19.01	18.97	18.96	19.02	19.07	19.26	19.31	19.41
Therm.	84°8	84°8	84°3	83°6	82°9	82°5	82°0	81°8	81°4	81°0	80°5	80°2

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
3 0	26.60	26.67	26.72	26.68	26.75	26.83	26.95	26.92	26.88	26.81	27.05	27.07
8 0	26.60	26.67	26.72	26.68	26.78	26.82	26.98	26.94	26.90	26.82	27.00	27.07
13 0	26.60	26.65	26.70	26.68	26.79	26.80	27.00	26.86	26.86	26.84	27.04	27.06
18 0	26.60	26.65	26.70	26.70	26.76	26.80	26.93	26.88	26.84	26.81	27.05	27.05
23 0	26.62	26.67	26.72	26.70	26.75	26.81	26.94	26.89	26.86	26.83	27.06	27.04
28 0	26.62	26.68	26.70	26.71	26.75	26.85	26.95	26.90	26.86	26.83	27.07	27.02
33 0	26.62	26.70	26.70	26.72	26.75	26.90	26.95	26.90	26.85	26.83	27.07	27.02
38 0	26.63	26.70	26.70	26.72	26.76	26.91	26.96	26.89	26.88	26.89	27.09	27.00
43 0	26.65	26.70	26.68	26.73	26.78	26.90	27.98	26.92	26.95	26.80	27.08	27.00
48 0	26.66	26.70	26.68	26.75	26.77	26.91	26.98	26.91	26.95	26.78	27.09	27.02
53 0	26.66	26.70	26.68	26.75	26.79	26.91	26.97	26.91	26.98	26.80	27.06	27.02
58 0	26.66	26.71	26.66	26.75	26.80	26.95	26.98	26.93	26.95	26.90	27.08	27.00
Therm.	83°8	84°2	84°1	83°7	83°2	82°6	82°3	82°9	81°8	81°3	81°1	80°5

TERM-DAY OBSERVATIONS, ON THE 27TH OF FEBRUARY 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
0 0	20·179	19·938	20·110	20·042	19·836	19·630	19·973	20·042	19·767	19·836	19·081	19·081
5 0	20.247	19.904	20.042	19.973	19.904	19.493	19.904	20.110	19.699	19.836	19.081	19.150
10 0	20.247	20.110	19.973	19.836	19.973	19.493	19.904	20.110	19.699	19.630	19.013	19.218
15 0	20.247	20.042	19.904	19.904	19.836	19.561	19.904	20.042	19.699	19.699	19.013	19.218
20 0	20.179	20.179	19.836	20.042	19.767	19.767	19.561	20.042	19.699	19.493	19.081	19.218
25 0	20.247	20.110	19.836	20.042	19·767	19.699	19.836	20 042	19·699	19.424	18.807	19.218
30 0	20.316	20.110	19.904	19.973	19.767	19.836	19.561	19.973	19.699	19.218	18.807	19.218
35 0	20.316	20.076	20.110	19.904	19.699	19.904	19.836	20.042	19.767	19 218	18.807	19.218
40 0	20.179	19.904	20.042	19.836	19.630	19.767	19.836	19.904	19.767	19·218	18.807	19.356
45 0	20.042	19.973	20.110	19.836	19.493	19.561	19.973	19.904	19.767	19·287	18.807	19 287
50 0	19.973	19.836	19.904	20.008	19.630	19.836	20.042	19.973	19.767	19·218	18.807	19.356
55 0	19.836	20.042	20.042	20.042	19.561	19.767	20.042	19.836	19.767	19·150	18.944	19·424

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
2 0	19.28	19.21	19.40	19.52	19.63	19.71	20.02	20.00	19.88	19.71	19.30	19.08
7 0	19.27	19.23	19.43	19.50	19.62	19.72	20.00	19.97	19.89	19.67	19.26	19.06
12 0	19.27	19.26	19.37	19.54	19.59	19.75	19.98	19.97	19.90	19.60	19.25	19.06
17 0	19.25	19.27	19.44	19.46	19.65	19.78	19.97	19.95	19.88	19.56	19.25	19.03
22 0	19.27	19.26	19.45	19.51	19.68	19.81	20.00	19.93	19.83	19.58	19.24	19.01
27 0	19.32	19.30	19.44	19.50	19.72	19.85	20·02	19.92	19.81	19.58	19.22	18.99
32 0	19.26	19.28	19.43	19.55	19.65	19.90	20.05	19.91	19.79	19.59	19.19	18.98
37 0	19.24	19.32	19.45	19.60	19.61	19.86	20·06	19.90	19.77	19.57	19.17	18.98
42 0	19·22	19·32	19.47	19.62	19.61	19.88	20.08	19.91	19.75	19.52	19.17	18.99
47 0	19.23	19.34	19.45	19.59	19.61	19.88	20.09	19.91	19.76	19.46	19.14	18.97
52 0	19.22	19.38	19.47	19.58	19.66	20.03	20.08	19.89	19.74	19.42	19·11	18.96
57 0	19.20	18.37	19.52	19.60	19.70	20.00	20.05	19.88	19.74	19.34	19.09	18.93
Therm.	80°5	80°4	79°7	79°8	79°7	78°8	19°6	80°7	82°6	84°0	85°9	87°2

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
3 0	26.15	26.36	26.40	26.60	26.64	26.61	26.80	26.72	26.48	26.28	26.18	26.17
8 0	26.20	26.42	26.40	26.60	26.65	26.60	26.80	26.72	26.44	26.30	26.15	26.17
13 0	26.24	26.40	26.40	26.60	26.63	26.61	26.77	26.68	26.40	26.30	26.15	26.17
18 0	26.27	26.41	26.45	26.60	26.63	26.64	26.79	26.65	26.38	26.30	26.16	26.18
23 0	26.30	26.42	26.55	26.61	26.59	26.69	26.79	26.64	26.38	26.25	26.16	26.20
28 0	26.36	26.42	26.53	26.58	26.64	26.73	26.78	26.62	26.35	26.24	26.16	26.21
33 0	26.37	26.40	26.51	26.60	26.60	26.75	26.75	26.58	26.35	26.20	26.15	26.21
38 0	26.38	26.38	26.53	26.61	26.56	26.75	26.73	26.56	26.33	26.17	20.15	26.23
43 0	26.36	26.41	26.55	26·60	26.60	26.76	26.73	26.64	26.30	26.17	20.14	26.24
48 0	26.37	26.41	26.55	26.62	26.66	26.78	26.73	26.52	26.30	26.17	26·14	26.24
53 0	26.38	26.43	26.55	26.64	26.64	26.80	26.74	26.52	26.28	26.16	26.16	26.25
58 0	26.38	26.40	26.58	26.64	26.65	26.80	26.72	26.48	26.28	26·18	26.15	26.24
Therm.	81°8	81°4	81°2	80°8	80°3	79°8	80°0	80°4	81°5	82°7	84°1	85°1

TERM-DAY OBSERVATIONS, ON THE 27TH OF FEBRUARY 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
0 0	19'424	19'767	19'973	20'042	19'836	20'179	19'904	19'904	20'316	20'110	19'973	19'973
5 0	19.493	19.767	20.110	20.110	19.836	20.110	19.973	19.904	20.316	19.973	19.836	19.973
10 0	19.493	19.836	20.042	20.042	19.836	20.042	19.973	20.110	20.179	19.904	20.042	19.904
15 0	19.493	19.767	20.110	19.973	19.767	20.042	19.973	19.904	19.767	19.973	20.110	19.973
20 0	22.512	19.836	20.110	19.904	19.836	20.042	19.938	19.904	20.179	19.904	19.973	20.179
25 0	22.718	19.836	20.110	19.836	19.836	20.042	19.904	19.973	20.042	19.836	19.904	20.042
30 0	22.787	19.904	20.042	19.767	19.904	20.042	19.836	20.042	20.110	19.836	19.767	19.836
35 0	19.699	19.904	20.110	19.836	19.973	20.042	19.836	20.179	19.904	19.904	20.042	20.042
40 0	19.836	19.973	20.042	19.836	20.042	20.042	19.904	19.904	19.767	19.699	20.042	20.076
45 0	20.042	19.973	20.042	19.836	20.042	19.973	19.836	20.247	20.042	20.179	19.801	20.179
50 0	20.042	20.042	20.110	19.904	20.110	19.973	19.767	20.453	19.836	19.904	19.973	19.973
55 0	19.767	19.973	20.110	19.904	20.110	19.904	19.904	20.453	20.042	20.042	20.042	20.042

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
2 0	18.92	18.52	18.35	18.37	18.47	18.55	18.58	18.65	18.92	19.00	19.00	19.12
7 0	18.89	18.50	18.33	18.40	18.47	18.54	18.62	18.65	18.82	18.91	19.01	19.11
12 0	18.87	18.49	18.32	18.41	18.48	18.55	18.69	18.67	18.89	18.95	19.02	19.16
17 0	18.86	18.45	18.34	18.43	18.50	18.55	18.64	18.73	18.91	18.94	19.01	19.18
22 0	18.85	18.45	18.35	18.42	18.51	18.55	18.70	18.75	18.92	18.92	19.04	19.15
27 0	18.80	18.43	18.36	18.42	18.53	18.55	18.70	18.75	18.86	18.97	19.09	19.18
32 0	18.77	18.41	18.35	18.44	18.51	18.54	18.74	18.75	18.86	19.04	19.06	19.24
37 0	18.75	18.41	18.36	18.45	18.50	18.53	18.70	18.77	18.87	18.99	19.09	19.24
42 0	18.70	18.40	18.36	18.45	18.54	18.52	18.67	18.78	18.90	19.01	19.05	19.24
47 0	18.66	18.39	18.36	18.46	18.51	18.51	18.72	18.84	18.95	19.00	19.05	19.24
52 0	18.62	18.38	18.37	18.47	18.55	18.54	18.67	18.86	18.94	19.01	19.09	19.28
57 0	18.56	18.36	18.37	18.45	18.56	18.58	18.65	18.86	18.94	18.93	19.10	19.28
Therm.	87°6	87°8	87°5	86°6	85°0	83°8	83°2	83°0	82°3	82°0	81°8	81°5

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
3 0	26.23	26.06	25.92	25.87	25.98	26.05	26.17	26.22	26.15	26.37	26.50	26.48
8 0	26.23	26.05	25.92	25.87	26.00	26.08	26.15	26.26	26.18	26.38	26.55	26.50
13 0	26.21	26.06	25.91	25.86	26.00	26.10	26.18	26.24	26.17	26.39	26.49	26.50
18 0	26.20	26.04	25.91	25.85	26.01	26.10	26.18	26.19	26.19	26.35	26.45	26.50
23 0	26.19	26.03	25.89	25.86	26.01	26.10	26.20	26.21	26.16	26.31	26.47	26.49
28 0	26.18	26.01	25.90	25.86	26.01	26.10	26.18	26.23	26.16	26.35	26.48	26.49
33 0	26.18	26.00	25.89	25.88	26.02	26.10	26.16	26.25	26.24	26.39	26.50	26.51
38 0	26.15	25.98	25.89	25.90	26.03	26.12	26.20	26.27	26.25	26.39	26.47	26.50
43 0	26.15	25.98	25.88	25.90	26.03	26.15	26.19	26.28	26.28	26.39	26.48	26.50
48 0	26.12	25.97	25.88	25.92	26.03	26.15	26.18	26.28	26.26	26.42	26.51	26.50
53 0	26.11	25.93	25.88	25.93	26.03	26.15	26.19	26.28	26.28	26.47	26.50	26.52
58 0	26.09	25.93	25.88	25.96	26.05	26.19	26.22	26.17	26.27	26.53	26.49	26.50
Therm.	86°0	87°0	87°1	86°7	85°5	84°8	84°1	83°9	83°2	82°9	82°5	82°1

TERM-DAY OBSERVATIONS, ON THE 18TH OF MARCH 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
0 0	19'767	20'522	20'522	20'110	19'836	20'728	21'276	21'276	20'522	19'767	19'424	19'699
5 0	19.973	20.385	20.385	19.973	20.179	20.796	21.002	21.208	20.659	19.630	19.424	19.767
10 0	19.904	20.453	20.247	19.769	20.179	20.865	21.071	21.139	20.659	19.630	19.424	19.767
15 0	20.316	20.453	19.973	20.042	20.247	20.933	21.276	21.139	20.659	19.561	19.424	19.836
20 0	20.933	20.179	20.110	20.042	20.110	20.933	21.208	21.208	20.247	19.561	19.424	19.767
25 0	20.865	20.385	20.110	20.042	20.316	21.276	21.071	21.139	20.247	19.561	19.493	19.836
30 0	20.522	20.385	20.316	19.973	20.385	21.345	21.276	21.139	20.247	19.356	19.561	19.904
35 0	20.865	20.453	20.042	19.767	20.590	21.276	21.139	21.071	20.179	19.424	19.630	19.904
40 0	20.865	20.110	20.042	19.973	20.522	21.345	21.208	21.071	19.904	19.424	19.561	19.904
45 0	20.590	20.453	20.110	19.973	20.728	20.933	21.208	20.933	19.767	19.356	19.630	19.767
50 0	20.385	20.453	19.973	19.973	20.728	21.071	21.276	20.796	19.973	19.424	19.630	19.699
55 0	20.728	20.453	20.110	20.042	20.796	21.276	21.276	20.728	19.973	19.424	19.699	19.699

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
2 0	18.99	18.77	18.71	18.87	19.01	18.94	19.01	19.10	19.17	18.87	18.56	18.28
7 0	18.94	18.72	18.75	18.85	18.90	18.97	19.02	19.10	19.11	18.85	18.53	18.25
12 0	18.92	18.68	18.71	18.81	18.96	18.82	19.07	19.09	19.06	18.82	18.53	18.25
17 0	18.89	18.71	18.84	18.87	18.94	18.85	19.05	19.09	19.04	18.81	18.48	18.23
22 0	18.87	18.67	18.79	18.89	18.94	18.85	19.06	19.14	19.14	18.76	18.46	18.22
27 0	18.82	18.68	18.74	18.88	18.80	18.80	19.02	19.15	19.10	18.72	18.44	18.17
32 0	18.80	18.70	18.77	18.94	18.90	18.94	19.00	19.14	19.06	18.68	18.42	18.13
37 0	18.80	18.69	18.69	18.99	18.84	18.95	19.05	19.18	19.02	18.63	18.36	18.14
42 0	18.81	18.71	18.77	18.94	18.87	19.00	19.08	19.18	19.02	18.61	18.35	18.12
47 0	18.80	18.60	18.70	18.90	18.69	19.06	19.14	19.20	19.00	18.59	18.31	18.15
52 0	18.78	18.77	18.88	18.92	18.90	18.99	19.07	19.22	18.86	18.56	18.29	18.14
57 0	18.79	18.70	18.88	18.94	18.95	19.02	19.09	19.20	18.88	18.55	18.29	18.13
Therm.	84°0	83°9	83°3	93°0	82°6	82°7	83°2	84°3	85°4	87°3	89°0	90°0

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
3 0	24.93	24.96	25.01	25.07	25 20	25.20	25.10	24.96	24.70	24.43	24.54	24.55
8 0	24.98	24.95	25.04	25.07	25.22	25.20	25.10	24.98	24.70	24.47	24.52	24.56
13 0	24.99	24.94	25.04	25.10	25.25	25.23	25.09	24.96	24.70	24.50	24.55	24.56
18 0	25.00	24.94	25.03	25.08	25.27	25.22	25.05	24.95	24.67	24.50	24.55	24.56
23 0	25.00	24.99	25.00	25.10	25.28	25.19	25.05	24.90	24.60	24.50	24.56	24.56
28 0	25.03	25.00	25.01	25.08	25.28	25.20	25.03	24.90	24.60	24.50	24.54	24.58
33 0	24.97	25.00	25.03	25.09	25.25	25.20	25.03	24.90	24.62	24.50	24.55	24.58
38 0	24.95	25.01	25.04	25.06	25.27	25.17	25.03	24.85	24.60	24.50	24.56	24.58
43 0	24.96	25.02	25.05	25.10	25.25	25.15	25.00	24.82	24.55	24.50	24.54	24.52
48 0	24.97	25.02	25.04	25.12	25.23	25.16	24.95	24.76	24.50	24.54	24.54	24.52
53 0	24.96	25.04	25.07	25.12	25.22	25.17	25.00	24.70	24.60	24.60	24.55	24.52
58 0	24.95	25.01	25.05	25.20	25.20	25.12	24.98	24.70	24.50	24.55	24.55	24.52
Therm.	84°7	84°4	84°3	84°0	83°6	83°5	83°9	84°2	85°4	87°0	88°1	88°7

TERM-DAY OBSERVATIONS, ON THE 18TH OF MARCH 1857.

LARGE DECLINATION MAGNETOMETER *(in Arc)*.

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
0 0	19'904	20'659	20'110	19'699	20'385	20'728	20'179	19'973	20'110	19'973	19'904	19'493
5 0	19.973	20.659	20.110	19.767	20.316	20.728	20.042	20.042	20.179	19.699	19.836	19.699
10 0	20.042	20.659	20.110	19.836	20.247	20.659	19.973	20.042	20.316	19.767	19.836	19.836
15 0	20.247	20.590	20.110	19.904	20.247	20.522	19.973	20.179	20.385	19.767	19.767	19.699
20 0	20.316	20.590	20.042	19.904	20.316	20.385	19.973	20.042	20.247	19.424	19.836	19.767
25 0	20.385	20.453	20.042	19.973	20.453	20.316	19.904	20.042	20.316	19.699	19.699	19.493
30 0	20.522	20.453	19.973	19.973	20.316	20.247	19.973	20.110	20.042	19.494	19.699	19.904
35 0	20.522	20.316	19.973	20.042	20.453	20.247	20.110	20.110	20.179	19.395	19.836	19.836
40 0	20.522	20.247	19.904	20.110	20.522	20.247	20.042	20.110	19.767	19.669	19.699	19.767
45 0	20.522	20.179	19.767	20.110	20.522	20.316	20.042	20.042	19.767	19.630	19.904	19.699
50 0	20.522	20.179	19.630	20.110	20.659	20.316	20.042	20.110	19.836	19.699	19.904	19.042
55 0	20.590	20.110	19.699	20.247	20.728	20.247	20.076	20.110	20.247	19.904	19.904	19.561

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
2 0	18.14	17.95	17.98	18.01	17.83	17.14	18.23	18.23	18.43	18.42	18.38	18.54
7 0	18.13	17.94	17.97	18.01	17.80	17.65	18.25	18.26	18.37	18.37	18.47	18.52
12 0	18.10	17.94	17.98	17.99	17.80	17.75	18.26	18.30	18.38	18.40	18.47	18.55
17 0	18.07	17.94	17.98	17.99	17.81	17.86	18.24	18.38	18.37	18.41	18.40	18.59
22 0	18.05	17.94	18.00	17.97	17.87	17.89	18.22	18.44	18.40	18.35	18.50	18.62
27 0	18.04	17.94	17.97	17.96	17.80	17.88	18.25	18.44	18.41	18.36	18.49	18.62
32 0	18.00	17.94	17.96	17.95	17.75	17.96	18.27	18.50	18.42	18.40	18.54	18.68
37 0	18.00	17.95	17.97	17.98	17.72	18.04	18.24	18.42	18.37	18.41	18.52	18.68
42 0	18.00	17.96	18.00	17.99	17.76	18.02	18.24	18.47	18.35	18.45	18.52	18.69
47 0	17.96	17.97	18.02	17.92	17.70	18.11	18.24	18.45	18.35	18.42	18.55	18.66
52 0	17.95	17.97	18.03	17.92	17.68	18.11	18.25	18.48	18.37	18.44	18.56	18.70
57 0	17.96	17.96	18.02	17.89	17.65	18.14	18.21	18.45	18.40	18.46	18.54	18.78
Therm.	90°1	90°0	90°0	88°8	87°5	86°9	86°5	85°9	85°3	84°8	84°3	84°0

VERTICAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
3 0	24.52	24.48	24.28	24.25	24.45	24.64	24.55	24.70	24.80	24.94	24.98	25.03
8 0	24.53	24.45	24.28	24.27	24.50	24.60	24.58	24.66	24.85	24.94	24.98	25.05
13 0	24.54	24.43	24.28	24.29	24.52	24.55	24.53	24.68	24.78	24.97	25.00	25.03
18 0	24.54	24.42	24.28	24.30	24.50	24.50	24.53	24.60	24.72	24.97	25.04	25.08
23 0	24.54	24.38	24.28	24.29	24.52	24.50	24.55	24.62	24.71	24.83	24.99	25.06
28 0	24.54	24.36	24.27	24.31	24.55	24.47	24.57	24.65	24.72	24.75	24.96	25.02
33 0	24.53	24.36	24.25	24.32	24.55	24.46	24.60	24.65	24.72	24.72	25.09	25.03
38 0	24.52	24.36	24.25	24.33	24.57	24.50	24.56	24.68	24.75	24.78	24.99	25.04
43 0	24.50	24.33	24.25	24.34	24.58	24.52	24.58	24.68	24.80	24.80	25.01	25.04
48 0	24.48	24.32	24.23	24.35	24.60	24.52	24.58	24.70	24.80	24.84	24.99	25.05
53 0	24.48	24.30	24.22	24.36	24.62	24.53	24.60	24.70	24.80	24.80	24.99	25.06
58 0	24.48	24.28	24.19	24.40	24.63	24.52	24.64	24.72	24.88	24.97	25.00	25.14
Therm.	89°3	89°9	90°0	89°5	88°5	88°0	87°7	87°1	86°7	86°0	85°3	85°1

TERM-DAY OBSERVATIONS, ON THE 22ND OF APRIL 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
0 0	19'630	19'630	19'904	20'042	20'247	20'453	20'316	19'699	18'258	17'572	17'572	17'298
5 0	19.630	19.561	19.904	20.110	20.385	20.453	20.247	19.561	18.189	17.503	17.503	17.366
10 0	19.493	19.630	19.904	19.699	20.522	20.385	20.247	19.493	18.121	17.503	17.503	17.641
15 0	19.699	19.767	19.767	19.836	20.522	20.316	20.247	19.356	17.984	17.435	17.503	17.641
20 0	19.493	19.767	19.767	19.699	20.453	20.042	20.179	19.218	17.984	17.572	17.435	17.572
25 0	19.424	19.801	19.904	19.767	20.316	20.385	20.110	19.150	17.915	13.572	17.366	17.572
30 0	19.595	19.767	19.904	20.110	20.316	20.385	20.042	18.944	17.846	17.572	17.366	17.709
35 0	19.424	19.767	19.967	20.247	20.179	20.385	19.904	18.807	17.778	17.572	17.366	17.743
40 0	19.424	19.699	19.904	20.179	20.110	20.385	19.904	18.670	17.709	17.572	17.298	17.778
45 0	19.630	19.630	19.767	20.179	20.247	20.247	19.836	18.532	17.709	17.503	17.298	17.846
50 0	19.561	19.767	19.836	20.316	20.385	20.316	19.767	18.464	17.572	17.503	17.298	17.846
55 0	19.561	19.836	19.904	20.316	20.453	20.316	19.699	18.327	17.572	17.641	17.298	17.915

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
2 0	19.20	19.24	19.32	19.32	19.40	19.44	19.55	19.64	19.59	19.40	19.21	19.06
7 0	19.22	19.24	19.32	19.34	19.40	19.43	19.56	19.64	19.58	19.38	19.21	19.02
12 0	19.19	19.26	19.34	19.34	19.38	19.44	19.58	19.65	19.55	19.33	19.19	19.01
17 0	19.20	19.26	19.34	19.38	19.36	19.43	19.60	19.64	19.54	19.32	19.18	18.99
22 0	19.21	19.29	19.33	19.40	19.39	19.43	19.63	19.64	19.53	19.32	19.18	18.97
27 0	19.21	19.29	19.32	19.41	19.38	19.46	19.65	19.62	19.53	19.31	19.18	18.95
32 0	19.22	19.29	19.32	19.42	19.39	19.45	19.68	19.62	19.52	19.30	19.16	18.92
37 0	19.21	19.31	19.35	19.42	19.39	19.51	19.67	19.62	19.50	19.27	19.15	18.92
42 0	19.24	19.33	19.32	19.41	19.42	19.54	19.67	19.60	19.50	19.24	19.13	18.91
47 0	19.22	19.33	19.34	19.39	19.44	19.55	19.68	19.60	19.48	19.23	19.11	18.92
52 0	19.23	19.31	19.35	19.40	19.44	19.54	19.66	19.61	19.46	19.24	19.10	18.91
57 0	19.24	19.32	19.33	19.40	19.44	19.55	19.64	19.62	19.43	19.22	19.07	18.90
Therm.	83°0	82°8	82°6	82°3	82°4	82°7	83°2	78°7	85°0	85°9	86°5	82°7

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
3 0	23.60	23.61	23.60	23.70	23.75	23.77	23.64	23.36	23.21	23.25	23.28	23.21
8 0	23.59	23.65	23.62	23.77	23.73	23.75	23.60	23.35	23.19	23.26	23.26	23.21
13 0	23.58	23.62	23.62	23.76	23.75	23.75	23.55	23.32	23.23	23.30	23.25	23.22
18 0	23.59	23.61	23.62	23.84	23.74	23.75	23.55	23.32	23.24	23.31	23.24	23.23
23 0	23.59	23.61	23.64	23.83	23.73	23.75	23.50	23.29	23.24	23.31	23.22	23.24
28 0	23.60	23.61	23.65	23.85	23.75	23.74	23.50	23.26	23.20	23.32	23.20	23.26
33 0	23.60	23.61	23.68	23.80	23.77	23.74	23.48	23.23	23.20	23.30	23.20	23.27
38 0	23.60	23.61	23.67	23.75	23.77	23.71	23.45	23.23	23.22	23.31	23.20	23.26
43 0	23.63	23.59	23.68	23.80	23.77	23.70	23.42	23.24	23.23	23.30	23.20	23.25
48 0	23.63	23.59	23.69	23.77	23.75	23.67	23.40	23.24	23.24	23.30	23.20	23.25
53 0	23.62	23.58	23.69	23.74	23.76	23.66	23.39	23.22	23.27	23.30	23.20	23.25
58 0	23.58	23.63	23.69	23.72	23.75	23.64	23.38	23.21	23.26	23.29	23.21	23.25
Therm.	83°9	83°7	83°2	83°0	82°7	82°7	83°1	83°8	84°3	85°0	85°7	86°2

TERM-DAY OBSERVATIONS, ON THE 22ND OF APRIL 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
0 0	19'984	19'081	19'801	19'904	19'699	19'356	19'218	19'630	19'493	19'493	19'767	19'904
5 0	18.052	19.150	19.836	19.904	19.699	19.356	19.150	19.561	19.424	19.561	19.699	19.973
10 0	18.258	19.287	19.836	19.904	19.699	19.356	19.150	19.493	19.424	19.493	19.767	19.870
15 0	18.327	19.287	19.870	19.767	19.561	19.356	19.287	19.699	19.493	19.493	19.630	20.042
20 0	18.395	19.356	19.870	19.836	19.561	19.356	19.356	19.424	19.493	19.630	19.699	19.973
25 0	18.464	19.424	19.870	19.767	19.493	19.287	19.356	19.561	19.527	19.630	19.767	20.110
30 0	18.566	19.561	19.904	19.767	19.493	19.287	19.424	19.493	19.493	19.699	19.836	20.042
35 0	18.670	19.561	19.836	19.699	19.493	19.287	19.493	19.699	19.527	19.561	19.836	19.973
40 0	18.807	19.561	19.836	19.767	19.493	19.218	19.493	19.561	19.493	19.630	20.042	19.973
45 0	18.875	19.561	19.904	19.699	19.424	19.218	19.561	19.561	19.561	19.630	20.076	20.042
50 0	18.944	19.630	19.904	19.767	19.424	19.218	19.424	19.630	19.527	19.699	20.042	19.973
55 0	19.013	19.767	19.973	19.699	19.424	19.218	19.630	19.561	19.527	19.767	20.042	19.973

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
2 0	18.88	18.78	18.71	18.65	18.65	18.60	18.73	18.79	18.84	18.96	19.03	19.06
7 0	18.88	18.76	18.70	18.66	18.64	18.60	18.76	18.80	18.84	18.97	19.03	19.07
12 0	18.88	18.76	18.69	18.66	18.66	18.61	18.75	18.79	18.88	18.98	19.04	19.05
17 0	18.86	18.75	18.69	18.66	18.63	18.61	18.72	18.81	18.88	18.99	19.04	19.07
22 0	18.86	18.74	18.68	18.65	18.61	18.65	18.71	18.82	18.89	19.00	19.03	19.11
27 0	18.85	18.76	18.67	18.67	18.60	18.67	18.71	18.81	18.90	19.02	19.03	19.13
32 0	18.85	18.74	18.67	18.66	18.59	18.70	18.70	18.81	18.91	19.01	19.03	19.07
37 0	18.82	18.74	18.67	18.66	18.59	18.71	18.70	18.81	18.92	19.02	19.06	19.07
42 0	18.82	18.73	18.68	18.67	18.59	18.70	18.71	18.83	18.93	19.03	19.05	19.14
47 0	18.81	18.75	18.66	18.67	18.59	18.70	18.72	18.85	18.94	19.02	19.05	19.14
52 0	18.81	18.72	18.65	18.66	18.60	18.70	18.76	18.81	18.94	19.01	19.08	19.06
57 0	18.78	18.72	18.65	18.65	18.60	18.71	18.78	18.84	18.96	19.02	19.08	19.05
Therm.	87°6	87°8	87°6	87°2	86°6	85°8	85°2	84°9	84°5	84°0	83°9	83°5

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
3 0	23.25	23.30	23.28	23.23	23.20	23.19	23.33	23.70	23.67	24.40	23.34	23.37
8 0	23.25	23.28	23.30	23.22	23.20	23.21	23.32	23.72	23.63	23.42	23.37	23.42
13 0	23.26	23.28	23.30	23.22	23.18	23.24	23.34	23.72	23.65	23.48	23.36	23.42
18 0	23.27	23.30	23.30	23.21	23.18	23.25	23.35	23.72	23.67	23.46	23.33	23.42
23 0	23.28	23.30	23.36	23.21	23.20	23.25	23.36	23.75	23.67	23.45	23.35	23.43
28 0	23.28	23.30	23.27	23.20	23.20	23.26	23.38	23.76	23.70	23.43	23.34	23.43
33 0	23.27	23.30	23.26	23.20	23.18	23.26	23.40	23.77	23.70	23.45	23.34	23.42
38 0	23.26	23.30	23.28	23.20	23.18	23.27	23.40	23.77	23.70	23.46	23.35	23.42
43 0	23.26	23.30	23.26	23.20	23.18	23.30	23.42	23.80	23.71	23.45	23.36	23.42
48 0	23.27	23.30	23.24	23.19	23.18	23.30	23.42	23.83	23.71	23.50	23.36	23.43
53 0	23.27	23.28	23.23	23.18	23.18	23.31	23.40	23.80	23.72	23.50	23.36	23.45
58 0	23.28	23.26	23.23	23.18	23.22	23.31	23.40	23.80	23.73	23.52	23.37	23.46
Therm.	87°0	87°4	87°5	87°0	86°4	85°7	85°0	84°7	84°2	83°9	83°7	83°3

TERM-DAY OBSERVATIONS, ON THE 29TH OF MAY 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
0 0	20'385	20'110	19'904	19'973	21'002	21'826	21'551	19'767	18'464	17'709	17'366	16'965
5 0	20·247	20·042	19·904	20·144	21 071	21.758	21.345	19.561	18.327	17.709	17.229	16.955
10 0	20·316	20.042	19·836	20·179	21.276	21.895	21.139	19.424	18.258	17.709	17.229	16.955
15 0	20.316	20·042	19.904	20·316	21.345	21.826	21.002	19.287	18.189	17.641	17.160	17.023
20 0	20·350	19·973	19·904	20·316	21.415	21.826	20.933	19.218	18.052	17.641	17.160	17.092
25 0	20·350	19·904	19·973	20.453	21.415	21.963	20.796	19.081	18.052	17.641	17.160	17.229
30 0	20·385	19·904	19·973	20·590	21.551	21.826	20.522	18.944	18.052	17.503	17.092	17.229
35 0	20·385	19·904	19·904	20·522	21.551	21.758	20.385	18.875	17.984	17.435	17.092	17.298
40 0	20·110	19.836	20·042	20·522	21.619	21.688	20.179	18.738	17.915	17.366	17.092	17.366
45 0	20·110	19·836	20·042	20·728	21.688	21.551	20.110	18.738	17.846	17.366	17.023	17.366
50 0	20·110	19·836	20·042	20·865	21.826	21.551	19.973	18.601	17.846	17.366	17.023	17.435
55 0	20.110	19.904	20.042	20·865	21.963	21.415	19.904	18.532	17.709	17.298	16.955	17.435

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
2 0	18.36	18.42	18.50	18.57	18.58	18.67	18.86	19.06	19.21	19.20	18.85	18.40
7 0	18.38	18.44	18.50	18.52	18.58	18.68	18.90	19.06	19.22	19.18	18.81	18.38
12 0	18.38	18.45	18.50	18.50	18.56	18.71	18.91	19.08	19.25	19.19	18.81	18.36
17 0	18.39	18.45	18.47	18.51	18.57	18.75	18.92	19.11	19.27	19.16	18.79	18.36
22 0	18.44	18.47	18.53	18.51	18.61	18.77	18.89	19.14	19.28	19.11	18.75	18.30
27 0	18 41	18.48	18.52	18.58	18.61	18.80	18.92	19.14	19.28	19.07	18.71	10.26
32 0	18.43	18.49	18.54	18.55	18.57	18.82	18.96	19.15	19.27	19.06	18.68	18.23
37 0	18.44	18.49	18.51	18.57	18.60	18.82	18.98	19.16	19.28	19.03	18.64	18.22
42 0	18.41	18.50	18.51	18.56	18.62	18.82	19.00	19.17	19.27	19.00	18.60	18.18
47 0	18.41	18.50	18.52	18.52	18.64	18.83	19.04	19.19	19.24	18.98	18.56	18.15
52 0	18.39	18.49	18.52	18.55	18.67	18.84	19.05	19.21	19.26	18.95	18.49	18.14
57 0	18.36	18.50	18.54	18.55	18.68	18.86	19.06	19.20	19.24	18.88	18.45	18.12
Therm.	87°1	87°0	86°8	86°7	86°6	86°8	87°4	88°3	89°0	89°9	90°6	90°9

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
3 0	19.64	19.60	19.70	19.80	19.90	19.85	19.54	19.30	19.30	19.35	19.28	19.22
8 0	19.65	19.65	19.70	19.80	19.90	19.85	19.54	19.28	19.30	19.35	19.25	19.23
13 0	19.66	19.64	19.70	19.80	19.90	19.85	19.50	19.28	19.30	19.34	19.23	19.24
18 0	19.66	19.65	19.75	19.80	19.90	19.80	19.46	19.26	19.30	19.32	19.23	19.25
23 0	19.66	19.66	19.73	19.85	19.90	19.80	19.44	19.26	19.30	19.30	19.23	19.29
28 0	19.65	19.68	19.73	19.88	19.90	19.77	19.44	19.30	19.32	19.30	19.23	19.28
33 0	19.66	19.67	19.70	19.88	19.90	19.73	19.40	19.30	19.32	19.28	19.22	19.27
38 0	19.67	19.65	19.70	19.90	19.90	19.70	19.36	19.30	19.33	19.28	19.22	19.23
43 0	19.67	19.66	19 70	19.90	19.90	19.63	19.35	19.30	19.34	19.26	19.22	19.26
48 0	19.62	19.64	19.66	19.90	19.90	19.60	19.34	19.32	19.35	19 25	19.22	19.26
53 0	19.62	19.66	19.76	19.90	19.90	19.60	19.32	19.32	19.35	19.26	19.22	19.24
58 0	19.59	19.70	19.77	19.90	19.85	19.54	19.30	19.30	19.35	19.28	19.23	19.22
Therm.	88°0	87°9	87°7	87°4	87°2	87°3	87°7	88°8	88°9	89°4	90°0	90°6

TERM-DAY OBSERVATIONS, ON THE 29TH OF MAY 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
0 0	17'435	18'052	19'081	19'287	19'356	19'699	19'973	20'042	20'179	20'659	20'453	20'213
5 0	17.435	18.121	19.081	19.356	19.493	19.699	20.042	20.385	20.179	20.042	20.179	20.179
10 0	17.503	18.258	19.081	19.356	19.424	19.630	19.699	19.973	20.110	20.247	20.316	20.271
15 0	17.503	18.327	19.081	19.424	19.424	19.699	20.179	20.110	20.316	20.385	19.973	20.247
20 0	17.572	18.464	19.150	19.424	19.424	19.630	20.179	19.973	20.247	20.042	20.110	20.316
25 0	17.641	18.601	19.218	19.356	19.424	19.699	19.973	20.110	20.179	20.453	20.042	20.247
30 0	17.709	18.738	19.150	19.356	19.561	19.767	19.836	20.042	20.385	20.385	20.247	20.385
35 0	17.709	18.807	19.150	19.424	19.493	19.767	20.042	20.110	20.590	20.316	20.179	20.453
40 0	17.778	18.875	19.150	19.424	19.493	19.767	20.110	20.316	20.453	20.385	20.316	20.453
45 0	17.846	18.875	19.218	19.287	19.561	19.801	20.110	20.316	20.110	20.179	20.247	20.385
50 0	17.846	18.944	19.287	19.356	19.630	19.836	19.973	20.316	20.316	20.453	20.316	20.385
55 0	17.984	19.013	19.287	19.356	19.630	19.904	20.316	20.042	20.316	20.385	20.144	20.453

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
2 0	18.10	17.89	17.68	17.55	17.59	17.49	17.53	17.60	17.82	17.79	18.00	18.09
7 0	18.08	17.87	17.65	17.54	17.62	17.48	17.52	17.68	17.74	17.80	18.02	18.09
12 0	18.06	17.85	17.64	17.53	17.60	17.50	17.50	17.66	17.72	17.80	18.03	18.08
17 0	18.03	17.84	17.64	17.53	17.62	17.51	17.52	17.63	17.79	17.79	18.00	18.08
22 0	18.01	17.81	17.62	17.56	17.64	17.55	17.53	17.61	17.76	17.90	18.03	18.07
27 0	18.00	17.78	17.62	17.55	17.67	17.55	17.55	17.60	17.83	17.87	18.02	18.07
32 0	17.98	17.76	17.60	17.54	17.65	17.56	17.56	17.65	17.84	17.90	18 04	18.13
37 0	17.96	17.75	17 59	17.58	17.62	17.56	17.54	17.64	17.74	17.88	18.05	18.13
42 0	17.94	17.73	17.59	17.58	17.58	17.56	17.55	17.70	17.78	17.92	18.05	18.09
47 0	17.94	17.71	17.56	17.57	17.55	17.56	17.62	17.71	17.75	17.92	18.05	18.10
52 0	17.92	17.70	17.56	17.56	17.50	17.56	17.64	17.78	17.76	17.95	18.07	18.12
57 0	17.90	17.69	17.54	17.58	17.50	17.57	17.62	17.76	17.78	17.98	18.07	18.10
Therm.	91°1	91°1	91°0	90°5	89°7	88°9	88°7	88°4	88°0	87°6	87°4	87°1

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
3 0	19.23	19.27	19.20	19.03	18.95	19.05	19.14	19.17	19.17	19.08	19.09	19.41
8 0	19.23	19.26	19.15	19.03	18.95	19.05	19.14	19.17	18.98	19.11	19.08	19.38
13 0	19.22	19.25	19.12	19.03	18.95	19.05	19.14	19.15	19.01	19.12	19.39	19.39
18 0	19.22	19.25	19.13	19.00	18.95	19.00	19.14	19.15	19.00	19.13	19.42	19.41
23 0	19.24	19.24	19.10	19.00	18.95	19.00	19.14	19.15	19.01	19.15	19.35	19.43
28 0	19.24	19.24	19.09	18.97	18.97	19.00	19.14	19.15	19.04	19.15	19.33	19.42
33 0	19.25	19.23	19.07	18.97	18.97	19.02	19.14	19.15	19.04	19.16	19.44	19.45
38 0	19.25	19.23	19.10	18.97	19.00	19.02	19.08	19.15	19.04	19.15	19.45	19.46
43 0	19.25	19.22	19 10	18.95	19.00	19.00	19.12	19.15	19.05	19.15	19.39	19.47
48 0	19.26	19.21	19.03	18.95	19.00	19.00	19.10	19.16	19.06	19.15	19.44	19.46
53 0	19.26	19.20	19.03	18.95	19.00	19.02	19.10	19.16	19.10	19.10	19.45	19.48
58 0	19.27	19.20	19.03	18.96	19.00	19.02	19.12	19.17	19.10	19.09	19.42	19.48
Therm.	91°0	91°4	91°5	91°4	90°7	90°0	89°7	89°4	89°0	88°6	88°3	88°0

TERM-DAY OBSERVATIONS, ON THE 24TH OF JUNE 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
0 0	20'110	20'247	20'385	20'453	21'482	21'688	21'619	21'139	20'316	19'356	18'807	18'258
5 0	20.110	20.316	20.453	20.522	21.482	21.688	21.619	21.071	20.247	19.218	18.738	18.258
10 0	20.042	20.316	20.453	20.590	21.551	21.688	21.688	21.002	20.179	19.081	18.738	18.189
15 0	20.042	20.385	20.453	20.728	21.551	21.758	21.619	20.933	20.179	18.944	18.738	18.189
20 0	20.110	20.316	20.453	20.796	21.619	21.758	21.619	20.933	20.042	18.875	18.670	18.223
25 0	20.179	20.385	20.590	20.830	21.619	21.758	21.551	20.865	19.904	18.875	18.532	18.223
30 0	20.179	20.385	20.487	20.933	21.619	21.758	21.482	20.728	19.836	18.807	18.464	18.258
35 0	20.247	20.385	20.453	21.002	21.688	21.758	21.415	20.659	19.699	18.807	18.464	18.223
40 0	20.110	20.385	20.247	21.002	21.688	21.688	21.345	20.522	19.630	18.807	18.395	18.189
45 0	20.247	20.385	20.316	21.208	21.758	21.688	21.276	20.522	19.561	18.875	18.327	18.121
50 0	20.247	20.110	20.385	21.208	21.619	21.688	21.208	20.453	19.493	18.875	18.327	18.189
55 0	20.385	20.385	20.316	21.345	21.688	21.688	21.208	20.385	19.424	18.807	18.327	18.189

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
2 0	18.94	19.00	19.11	19.21	19.25	19.43	19.53	19.66	19.80	19.75	19.69	19.51
7 0	18.99	19.01	19.11	19.19	19.26	19.44	19.55	19.69	19.81	19.75	19.68	19.47
12 0	18.98	19.01	19.10	19.16	19.27	19.46	19.58	19.70	19.81	19.74	19.67	19.45
17 0	18.99	19.05	19.12	19.15	19.29	19.46	19.59	19.73	19.81	19.72	19.67	19.45
22 0	18.99	19.05	19.13	19.15	19.30	19.46	19.60	19.75	19.80	19.71	19.66	19.45
27 0	19.01	19.04	19.14	19.17	19.31	19.47	19.61	19.77	19.79	19.70	19.66	19.43
32 0	19.00	19.05	19.19	19.20	19.32	19.46	19.62	19.78	19.79	19.70	19.65	19.43
37 0	19.00	19.07	19.18	19.20	19.34	19.46	19.63	19.78	19.77	19.70	19.65	19.39
42 0	19.03	19.06	19.23	19.22	19.36	19.48	19.63	19.79	19.76	19.69	19.63	19.38
47 0	19.00	19.07	19.22	19.21	19.38	19.48	19.64	19.79	19.74	19.69	19.56	19.36
52 0	19.01	19.11	19.22	19.23	19.41	19.50	19.65	19.80	19.74	19.68	19.54	19.35
57 0	19.04	19.08	19.22	19.24	19.45	19.52	19.65	19.80	19.74	19.68	19.51	19.33
Therm.	81°0	80°5	80°5	80°9	81°5	81°9	82°0	82°1	82°9	83°2	83°6	83°8

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
3 0	18.50	18.40	18.53	18.57	18.70	18.62	18.60	18.28	18.00	17.85	17.84	17.82
8 0	18.50	18.45	18.54	18.59	18 71	18.65	18.58	18.25	18.00	17.84	17.84	17.82
13 0	18.45	18.43	18.54	18.60	18.75	18.61	18.55	18.21	17.98	17.84	17.85	17.84
18 0	18.45	18.45	18.52	18.63	18.75	18.60	18.52	18.18	17.98	17.82	17.85	17.84
23 0	18.46	18.44	18.52	18.63	18.72	18.60	18.54	18.15	17.97	17.82	17.83	17.85
28 0	18.46	18.44	18.53	18.64	18.71	18.57	18.53	18.13	17.96	17.82	17.80	17.85
33 0	18.44	18.46	18.56	18.65	18.73	18.57	18.49	18.12	17.96	17.82	17.80	17.86
38 0	18.42	18.48	18.59	18.65	18.70	18.53	18.46	18.12	17.94	17.81	17.80	17.86
43 0	18.40	18.50	18.57	18.68	18.66	18.51	18.44	18.08	17.92	17.81	17.82	17.83
48 0	18.41	18.47	18.56	18.70	18.64	18.48	18.40	18.05	17.91	17.84	17.80	17.85
53 0	18.42	18.48	18.57	18.70	18.62	18.60	18.38	18.02	17.90	17.84	17.80	17.85
58 0	18.42	18.52	18.57	18.68	18.64	18.60	18.32	18.02	17.88	17.84	17.82	17.87
Therm.	81°7	81°2	81°1	81°3	81°8	82°1	82°1	82°6	83°0	83°2	83°8	83°9

TERM-DAY OBSERVATIONS, ON THE 24TH OF JUNE 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
0 0	18'189	18'670	19'287	19'767	19'561	19'081	19'013	19'150	19'287	19'493	19'767	20'042
5 0	18.223	18.670	19.287	19.767	19.561	19.013	19.013	19.150	19.287	19.493	19.767	20.042
10 0	18.223	18.738	19.424	19.836	19.493	19.013	19.013	19.150	19.287	19.561	19.836	20.042
15 0	18.258	18.738	19.424	19.836	19.356	19.013	19.013	19.150	19.287	19.561	19.836	20.042
20 0	18.327	18.875	19.424	19.836	19.356	18.944	19.013	19.150	19.356	19.561	19.904	20.110
25 0	18.327	18.875	19.493	19.836	19.287	18.944	19.013	19.150	19.356	19.561	19.904	20.110
30 0	18.327	18.944	19.493	19.836	19.218	18.944	19.081	19.150	19.356	19.630	19.904	20.042
35 0	18.361	18.944	19.561	19.767	19.218	19.013	19.081	19.218	19.424	19.630	19.973	20.042
40 0	18.395	18.978	19.630	19.767	19.150	19.013	19.081	19.218	19.424	19.699	19.973	20.042
45 0	18.464	18.978	19.699	19.767	19.150	19.013	19.150	19.218	19.424	19.699	19.973	20.042
50 0	18.464	19.013	19.699	19.630	19.081	19.013	19.150	19.218	19.424	19.699	19.973	20.042
55 0	18.532	19.150	19.699	19.630	19.081	19.013	19.150	19.218	19.493	19.767	19.973	20.110

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
2 0	19.31	19.08	18.86	18.79	18.69	18.71	18.69	18.73	18.76	18.79	18.80	18.80
7 0	19.29	19.06	18.85	18.77	18.70	18.70	18.69	18.73	18.76	18.79	18.81	18.79
12 0	19.29	19.03	18.82	18.73	18.70	18.70	18.70	18.73	18.76	18.79	18.81	18.79
17 0	19.25	19.02	18.81	18.72	18.72	18.71	18.70	18.73	18.76	18.80	18.81	18.80
22 0	19.22	18.98	18.82	18.72	18.70	18.71	18.69	18.74	18.76	18.80	18.81	18.80
27 0	19.21	18.97	18.82	18.71	18.70	18.70	18.70	18.74	18.77	18.80	18.82	18.80
32 0	19.21	18.96	18.81	18.70	18.69	18.70	18.71	18.74	18.77	18.81	18.82	18.81
37 0	19.19	18.95	18.82	18.70	18.70	18.69	18.70	18.74	18.76	18.81	18.81	18.81
42 0	19.18	18.92	18.81	18.70	18.69	18.69	18.71	18.75	18.76	18.81	18.80	18.82
47 0	19.15	18.90	18.80	18.69	18.69	18.69	18.72	18.75	18.77	18.81	18.80	18.82
52 0	19.13	18.88	18.80	18.69	18.70	18.69	18.73	18.75	18.78	18.81	18.80	18.82
57 0	19.11	18.87	18.79	18.70	18.70	18.69	18.73	18.75	18.78	18.80	18.80	18.81
Therm.	84°2	84°2	84°0	84°0	83°8	83°4	83°2	83°2	83°1	83°1	83°1	83°0

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
3 0	17.88	18.01	18.03	18.01	17.85	17.80	17.85	17.89	17.91	17.98	18.00	18.00
8 0	17.89	18.01	18.02	17.99	17.82	17.80	17.86	17.90	17.92	17.98	17.99	17.99
13 0	17.90	18.01	18.02	17.97	17.80	17.80	17.87	17.90	17.94	17.98	17.99	17.99
18 0	17.90	18.02	18.02	17.96	17.78	17.79	17.88	17.90	17.94	17.99	17.99	17.99
23 0	17.92	18.03	18.01	17.98	17.79	17.82	17.88	17.90	17.94	17.99	18.00	17.98
28 0	17.94	18.03	18.01	17.99	17.79	17.82	17.88	17.90	17.94	17.98	18.00	17.98
33 0	17.94	18.03	18.00	17.95	17.79	17.83	17.88	17.90	17.95	17.98	18.00	17.98
38 0	17.96	18.02	18.00	17.93	17.80	17.84	17.88	17.90	17.96	17.99	18.00	17.98
43 0	17.98	18.02	18.00	17.90	17.79	17.85	17.88	17.91	17.97	17.99	18.00	17.97
48 0	18.00	18.03	18.00	17.88	17.79	17.85	17.89	17.91	17.97	17.99	18.00	17.97
53 0	18.00	18.04	17.99	17.87	17.80	17.86	17.89	17.91	17.97	17.99	18.00	17.98
58 0	18.00	18.03	17.99	17.85	17.80	17.88	17.89	17.91	17.98	18.00	18.00	17.98
Therm.	84°0	84°2	84°1	84°3	84°4	84°0	84°0	84°0	83°9	83°8	83°8	83°7

TERM-DAY OBSERVATIONS, ON THE 22ND OF JULY 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
0 0	19'493	19'458	19'424	19'493	20'796	22'101	22'237	21'826	20'796	20'179	19'424	17'984
5 0	19.493	19.493	19.390	19.561	20.796	22.168	22.168	21.758	20.796	20.179	19.287	17.984
10 0	19.493	19.493	19.356	19.630	20.933	22.237	22.101	21.688	20.728	20.179	19.150	17.984
15 0	19.493	19.424	19.356	19.699	21.071	22.305	22.101	21.551	20.659	20.110	19.150	17.846
20 0	19.424	19.390	19.356	19.767	21.345	22.305	22.032	21.482	20.659	20.110	19.150	17.503
25 0	19.424	19.390	19.322	19.836	21.826	22.305	21.895	21·415	20.659	20.042	19.081	17.641
30 0	19.424	19.390	19.322	19.973	21.963	22.444	21.895	21.345	20.590	19.904	18·875	17.572
35 0	19.424	19.356	19.356	20.042	22.032	22.374	21.758	21.276	20.590	19.699	18.738	17.641
40 0	19.424	19.356	19.356	20.179	22.032	22.374	21.826	21.071	20.590	19·767	18.601	17.778
45 0	19.424	19.424	19.424	20.316	22.032	22.374	21.895	20·933	20.453	19.630	18.532	17.572
50 0	19.458	19.424	19.424	20.453	22.101	22.237	21.895	20.933	20.385	19.561	18.395	17.435
55 0	19.458	19.424	19.424	20.728	22.101	22.237	21.895	20.865	20.316	19.561	18.052	17.435

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
2 0	18.88	18.78	18.79	18.85	18.88	19.30	19.56	19.58	19.52	19.65	19.28	19.34
7 0	18.85	18.78	18.77	18.85	18.85	19.33	19.58	19.54	19.54	19.64	19.31	19.26
12 0	18.86	18.78	18.78	18.83	18.85	19.34	19.65	19.53	19.58	19.60	19.26	19.20
17 0	18.84	18.80	18.80	18.83	18.85	19.35	19.67	19.52	19.57	19.60	19.24	19.24
22 0	18·82	18.78	18.81	18.84	19.19	19.38	19.54	19.53	19.56	19.60	19.21	19.32
27 0	18.81	18.77	18.81	18.84	19.25	19.35	19.50	19.56	19.58	19.60	19.18	19.24
32 0	18.81	18.77	18.81	18.84	19.25	19.39	19.48	19.57	19.57	19.58	19.19	19.21
37 0	18.81	18.76	18.82	18.86	19.25	19.41	19.46	19.60	19.57	19.58	19.13	19.13
42 0	18.81	18.76	18.84	18.87	19.26	19.45	19.49	19.61	19.57	19.46	19.13	19.08
47 0	18.80	18.77	18.84	18.88	19.27	19.43	19.53	19.62	19.56	19.48	19.11	19.03
52 0	18.79	18.78	18.84	18.88	19.27	19.48	19.54	19.55	19·58	19.39	19.21	19.03
57 0	18.77	18.78	18.84	18.88	19·28	19.55	19.57	19.54	19.64	19.29	19.29	18.98
Therm.	83°0	83°0	83°0	83°0	83°0	85°2	83°0	83°1	84°3	85°2	85°9	86°3

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
3 0	18.20	18.23	18.23	18.32	18.52	18.55	18.42	18.29	18.13	17.84	17.82	17.60
8 0	18.20	18.23	18.25	18.32	18.56	18.56	18.38	18.27	18.10	17.85	17.78	17.65
13 0	18.20	18.23	18.25	18.34	18.57	18.56	18.38	18.22	18.08	17·85	17.77	17.65
18 0	18.20	18.22	18.25	18.34	18.57	18.55	18.36	18.20	18.05	17.85	17.77	17.62
23 0	18.20	18.22	18.25	18.35	18.57	18.54	18.36	18.20	18.03	17.83	17.77	17.55
28 0	18.20	18.22	18.25	18.37	18.58	18.52	18.38	18.16	18.02	17.81	17.77	17.58
33 0	18.20	18.22	18.26	18.37	18.57	18.52	18.38	18.15	18.00	17.80	17·73	17.60
38 0	18.20	18.22	18.25	18.40	18.57	18.50	18.38	18.12	17.98	17.77	17.72	17.62
43 0	18.21	18.22	18.28	18.42	18.56	18.45	18.35	18.10	17.97	17.80	17.70	17.62
48 0	18.22	18.22	18.28	18.45	18.56	18.44	18.34	18.09	17.91	17.78	17.70	17.60
53 0	18.22	18.22	18.28	18.48	18.55	18.43	18.32	18.12	17.89	17.79	17.65	17.53
58 0	18.22	18.23	18.30	18.50	18.55	18.42	18.30	18.12	17.85	17.83	17.60	17.55
Therm.	83°2	83°2	83°2	83°3	83°2	83°0	83°1	83°2	83°8	84°7	85°2	85°8

TERM-DAY OBSERVATIONS, ON THE 22ND OF JULY 1857.

LARGE DECLINATION MAGNETOMETER *(in Arc)*.

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
0 0	17′435	18′052	18′532	17′915	17′984	18′258	18′327	18′944	19′630	19′561	19′630	20′042
5 0	17.435	17.709	18.464	18.121	17.984	18.327	18.464	19.013	19.699	19.493	19.630	20.042
10 0	17.435	17.709	18.327	18.189	18.052	18.121	18.532	19.013	19.699	19.424	19.630	20.042
15 0	17.435	17.915	18.464	18.189	18.121	18.121	18.601	19.081	19.699	19.561	19.630	20.042
20 0	17.435	18.121	18.327	18.258	18.121	18.052	18.601	19.218	19.630	19.561	19.699	20.042
25 0	17.846	17.846	18.327	17.984	18.052	18.121	18.532	19.356	19.699	19.561	19.699	20.076
30 0	18.052	18.258	18.258	17.846	18.052	18.189	18.464	19.356	19.699	19.561	19.699	20.042
35 0	17.641	18.327	18.121	17.846	18.052	18.189	18.464	19.424	19.699	19.630	19.836	20.042
40 0	18.395	18.327	18.121	17.778	18.052	18.052	18.601	19.493	19.630	19.630	19.904	20.042
45 0	18.121	18.395	17.984	17.709	18.121	18.121	18.601	19.493	19.561	19.630	19.973	20.042
50 0	17.915	18.395	17.915	17.846	18.258	18.189	18.601	19.767	19.561	19.630	19.973	19.973
55 0	18.052	18.395	17.846	17.984	18.189	18.327	18.670	19.630	19.630	19.699	19.973	20.042

LARGE HORIZONTAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
2 0	18.94	18.94	18.52	18.42	18.28	18.27	18.05	18.55	18.20	18.26	18.35	18.37
7 0	18.93	18.97	18.57	18.40	18.31	18.25	18.03	18.54	18.10	18.30	18.45	18.37
12 0	18.91	18.98	18.57	18.35	18.31	18.24	18.04	18.54	18.17	18.31	18.44	18.39
17 0	18.87	18.85	18.50	18.31	18.30	18.21	18.05	18.54	18.15	18.32	18.37	18.42
22 0	18.84	18.84	18.53	18.30	18.31	18.19	18.05	18.54	18.14	18.32	18.36	18.42
27 0	18.68	18.80	18.47	18.31	18.34	18.17	18.08	18.45	18.16	18.35	18.37	18.45
32 0	18.67	18.56	18.53	18.29	18.34	18.16	18.12	18.37	18.12	18.33	18.37	18.45
37 0	18.95	18.62	18.57	18.28	18.34	18.13	18.15	18.33	18.12	18.32	18.36	18.40
42 0	18.68	18.60	18.59	18.29	18.44	18.10	18.24	18.32	18.12	18.29	18.37	18.37
47 0	18.77	18.60	18.60	18.30	18.39	18.10	18.34	18.35	18.21	18.31	18.36	18.34
52 0	18.77	18.60	18.57	18.30	18.30	18.07	18.44	18.28	18.22	18.31	18.36	18.33
57 0	18.74	18.52	18.50	18.27	18.29	18.06	18.59	18.24	18.22	18.33	18.35	18.35
Therm.	86°3	86°3	86°2	86°0	85°5	84°7	84°3	84°0	84°0	83°9	83°8	83°5

VERTICAL FORCE MAGNETOMETER *(in Scale Readings)*.

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
3 0	17.56	17.46	17.56	17.45	17.42	17.52	17.63	17.70	17.75	17.73	17.81	17.90
8 0	17.55	17.40	17.52	17.46	17.46	17.55	17.65	17.77	17.78	17.74	17.81	17.91
13 0	17.52	17.42	17.50	17.46	17.47	17.52	17.65	17.72	17.78	17.75	17.80	17.92
18 0	17.52	17.50	17.50	17.46	17.50	17.52	17.65	17.73	17.76	17.76	17.83	17.92
23 0	17.50	17.52	17.50	17.48	17.48	17.54	17.64	17.73	17.77	17.77	17.84	17.91
28 0	17.55	17.52	17.50	17.40	17.48	17.54	17.64	17.75	17.77	17.77	17.84	17.90
33 0	17.52	17.58	17.47	17.40	17.48	17.56	17.64	17.75	17.77	17.78	17.85	17.90
38 0	17.40	17.53	17.42	17.42	17.48	17.55	17.64	17.77	17.76	17.78	17.85	17.90
43 0	17.56	17.53	17.40	17.40	17.48	17.55	17.65	17.78	17.74	17.79	17.87	17.90
48 0	17.50	17.52	17.38	17.40	17.50	17.56	17.63	17.78	17.72	17.79	17.90	17.90
53 0	17.46	17.50	17.38	17.40	17.52	17.58	17.68	17.79	17.75	17.80	17.90	17.90
58 0	17.50	17.56	17.44	17.42	17.54	17.62	17.68	17.79	17.75	17.81	17.90	17.90
Therm.	86°0	86°0	86°1	85°9	85°6	85°0	84°8	84°7	84°5	84°2	84°0	83°7

TERM-DAY OBSERVATIONS, ON THE 28TH OF AUGUST 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
0 0	19'287	19'218	19'218	19'424	20'385	21'002	20'590	19'493	17'846	16'680	15'994	15'788
5 0	19.218	19.287	19.218	19.424	20.453	21.071	20.522	19.424	17.572	16.612	15.926	15.857
10 0	19.218	19.218	19.150	19.561	20.659	21.071	20.316	19.218	17.572	16.612	15.857	15.926
15 0	19.218	19.287	19.150	19.699	20.728	21.002	20.247	19.081	17.572	16.612	15.857	15.994
20 0	19.218	19.218	19.218	19.699	20.728	20.933	20.179	18.875	17.435	16.543	15.788	16.063
25 0	19.218	19.218	19.287	19.699	20.796	20.865	20.110	18.670	17.366	16.543	15.720	16.200
30 0	19.287	19.150	19.287	19.836	20.865	20.796	20.042	18.532	17.298	16.474	15.720	16.269
35 0	19.287	19.081	19.356	19.973	20.933	20.796	19.973	18.464	17.229	16.406	15.720	16.337
40 0	19.287	19.081	19.356	19.973	20.933	20.728	19.904	18.258	17.092	16.337	15.720	16.414
45 0	19.218	19.081	19.356	20.110	21.002	20.728	19.836	18.121	16.955	16.337	15.651	16.612
50 0	19.218	19.150	19.356	20.110	21.002	20.659	19.767	18.052	16.817	16.200	15.720	16.749
55 0	19.218	19.150	19.424	20.247	21.002	20.659	19.630	17.915	16.749	16.063	15.720	16.817

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
2 0	18.66	18.78	18.80	18.79	18.84	18.94	18.91	19.13	19.14	19.17	19.08	18.90
7 0	18.70	18.79	18.80	18.79	18.84	18.94	18.93	19.15	19.17	19.14	19.07	18.89
12 0	18.70	18.80	18.80	18.80	18.84	18.95	18.94	19.16	19.15	19.12	19.06	18.88
17 0	18.71	18.80	18.80	18.80	18.86	18.93	18.95	19.16	19.13	19.12	19.05	18.86
22 0	18.71	18.80	18.80	18.81	18.87	18.92	18.95	19.16	19.15	19.13	19.04	18.84
27 0	18.72	18.80	18.80	18.83	18.89	18.92	18.97	19.12	19.15	19.12	19.02	18.82
32 0	18.71	18.80	18.79	18.83	18.90	18.91	18.99	19.11	19.17	19.12	19.01	18.83
37 0	18.72	18.80	18.79	18.84	18.90	18.91	19.04	19.11	19.17	19.12	18.98	18.83
42 0	18.73	18.80	18.78	18.82	18.91	18.91	19.05	19.11	19.17	19.10	18.96	18.81
47 0	18.74	18.80	18.78	18.83	18.93	18.90	19.06	19.11	19.16	19.09	18.93	18.79
52 0	18.75	18.80	18.78	18.83	18.93	18.90	19.07	19.11	19.16	19.08	18.92	18.77
57 0	18.77	18.80	18.79	18.83	18.93	18.90	19.09	19.13	19.18	19.08	18.91	18.75
Therm.	80°9	80°9	80°9	80°9	80°9	80°8	81°1	81°4	82°6	83°4	83°9	84°0

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
3 0	14.82	14.93	15.05	15.13	15.33	15.35	15.20	15.05	14.92	14.80	14.62	14.54
8 0	14.87	14.98	15.06	15.18	15.33	15.33	15.20	15.05	14.90	14.80	14.62	14.54
13 0	14.87	14.98	15.06	15.20	15.34	15.33	15.20	15.04	14.90	14.80	14.60	14.53
18 0	14.87	14.99	15.08	15.20	15.37	15.37	15.14	15.02	14.88	14.80	14.58	14.53
23 0	14.87	14.99	15.08	15.21	15.37	15.37	15.13	15.01	14.86	14.78	14.57	14.52
28 0	14.87	14.98	15.09	15.22	15.34	15.37	15.11	15.00	14.86	14.78	14.55	14.54
33 0	14.88	14.98	15.10	15.22	15.34	15.30	15.11	14.98	14.85	14.76	14.55	14.58
38 0	14.89	15.00	15.12	15.24	15.34	15.30	15.12	14.98	14.84	14.75	14.53	14.55
43 0	14.89	15.00	15.12	15.28	15.35	15.30	15.12	14.96	14.82	14.72	14.53	14.52
48 0	14.91	15.02	15.12	15.30	15.35	15.26	15.10	14.95	14.82	14.70	14.54	14.50
53 0	14.92	15.03	15.12	15.32	15.35	15.21	15.07	14.94	14.80	14.68	14.54	14.49
58 0	14.93	15.03	15.12	15.32	15.35	15.20	15.05	14.93	14.80	14.64	14.54	14.49
Therm.	81°4	81°4	81°3	81°3	81°3	81°3	81°3	81°2	81°9	82°3	83°0	83°7

TERM-DAY OBSERVATIONS, ON THE 28TH OF AUGUST 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
0 0	16'955	17'846	18'738	18'738	18'807	18'670	18'601	18'738	18'807	18'738	18'807	18'807
5 0	17.023	17.984	18.738	18.738	18.807	18.670	18.601	18.738	18.807	18.738	18.875	18.807
10 0	17.023	18.052	18.807	18.738	18.807	18.670	18.601	18.738	18.807	18.738	18.944	18.738
15 0	17.160	18.121	18.738	18.738	18.738	18.670	18.601	18.738	18.807	18.875	18.944	18.807
20 0	17.160	18.189	18.738	18.738	18.670	18.670	18.601	18.738	18.807	18.875	19.081	18.875
25 0	17.366	18.327	18.738	18.738	18.670	18.670	18.670	18.738	18.807	18.807	19.013	18.944
30 0	17.366	18.327	18.807	18.738	18.670	18.670	18.670	18.738	18.807	18.807	19.013	19.013
35 0	17.435	18.464	18.807	18.807	18.670	18.670	18.738	18.738	18.807	18.670	18.944	19.081
40 0	17.503	18.464	18.738	18.807	18.670	18.670	18.738	18.738	18.807	18.670	18.807	19.150
45 0	17.709	18.532	18.738	18.807	18.670	18.670	18.738	18.738	18.738	18.670	18.875	19.287
50 0	17.778	18.601	18.738	18.807	18.670	18.670	18.738	18.738	18.738	18.670	18.807	19.287
55 0	17.846	18.670	18.738	18.807	18.670	18.601	18.738	18.807	18.738	18.670	18.807	19.218

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
2 0	18.72	18.51	18.40	18.39	18.48	18.39	18.42	18.48	18.55	18.64	18.83	18.78
7 0	18.70	18.50	18.39	18.40	18.48	18.39	18.42	18.48	18.55	18.64	18.78	18.81
12 0	18.68	18.50	18.38	18.42	18.44	18.41	18.42	18.48	18.58	18.64	18.75	18.79
17 0	18.64	18.49	18.39	18.44	18.44	18.40	18.43	18.49	18.60	18.64	18.77	18.79
22 0	18.62	18.48	18.39	18.47	18.42	18.41	18.43	18.49	18.59	18.67	18.86	18.78
27 0	18.60	18.45	18.40	18.48	18.42	18.40	18.44	18.49	18.60	18.72	18.86	18.79
32 0	18.60	18.44	18.39	18.49	18.43	18.40	18.44	18.48	18.62	18.85	18.82	18.78
37 0	18.60	18.42	18.39	18.51	18.41	18.40	18.47	18.50	18.63	18.83	18.81	18.75
42 0	18.59	18.41	18.38	18.51	18.39	18.40	18.47	18.51	18.63	18.82	18.79	18.75
47 0	18.58	18.40	18.38	18.51	18.39	18.40	18.48	18.51	18.64	18.82	18.76	18.74
52 0	18.56	18.40	18.38	18.50	18.39	18.40	18.46	18.51	18.65	18.81	18.79	18.74
57 0	18.56	18.40	18.39	18.50	18.39	18.42	18.46	18.53	18.64	18.81	18.78	18.75
Therm.	84°2	84°0	83°9	82°8	82°0	82°0	82°0	81°9	81°7	81°5	81°3	81°2

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
3 0	14.49	14.38	14.30	14.19	14.22	14.48	14.50	14.60	14.78	14.90	15.04	15.08
8 0	14.48	14.37	14.28	14.19	14.28	14.49	14.50	14.60	14.78	14.94	15.05	15.09
13 0	14.46	14.35	14.27	14.19	14.35	14.49	14.50	14.62	14.80	14.95	15.06	15.10
18 0	14.46	14.35	14.25	14.19	14.39	14.50	14.50	14.63	14.82	14.94	15.05	15.12
23 0	14.45	14.37	14.24	14.20	14.39	14.50	14.50	14.64	14.84	14.94	15.05	15.13
28 0	14.44	14.36	14.23	14.20	14.39	14.50	14.50	14.65	14.84	14.95	15.05	15.14
33 0	14.43	14.34	14.20	14.20	14.39	14.50	14.50	14.65	14.84	14.92	15.06	15.14
38 0	14.42	14.33	14.20	14.21	14.39	14.50	14.55	14.66	14.85	14.95	15.06	15.16
43 0	14.41	14.31	14.20	14.21	14.40	14.50	14.55	14.66	14.85	14.96	15.05	15.16
48 0	14.39	14.31	14.20	14.21	14.45	14.50	14.56	14.67	14.86	14.98	15.05	15.17
53 0	14.39	14.30	14.20	14.22	14.48	14.50	14.57	14.68	14.86	15.00	15.06	15.17
58 0	14.38	14.30	14.19	14.22	14.48	14.50	14.58	14.72	14.88	15.02	15.07	15.18
Therm.	84°0	84°0	84°0	83°7	83°2	83°0	82°8	82°2	82°0	82°0	81°8	81°9

TERM-DAY OBSERVATIONS, ON THE 23RD OF SEPTEMBER 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
0 0	18·532	17·778	17·435	18·532	19·561	20·796	19·699	17·984	16·749	15·583	15·445	16·131
5 0	18·327	17·572	17·709	18·532	19.699	20.590	19.630	17.846	16.543	15.583	15.445	16.200
10 0	18·395	17.435	17·435	18·532	19.630	20.522	19.493	17.846	16.474	15.583	15.514	16.269
15 0	18·327	17·435	17.503	18·601	19.699	20.453	19.356	17.846	16.406	15.445	15.583	16.269
20 0	18.532	17·366	17·572	18·395	19.699	20.453	19.218	17.778	16.269	15.445	15.583	16.337
25 0	18·327	17.298	17·915	18.395	20.179	20.385	19.013	17.641	16.131	15.445	15.720	16.474
30 0	18·189	17·572	17·846	18·738	20.247	20,385	18.944	17.503	16.063	15.445	15.720	16.680
35 0	18·052	17·503	17·915	18·807	20.385	20.247	18.807	17.366	15.857	15.445	15.788	16.749
40 0	18·052	17.435	17·915	18·738	20.522	20.110	18.532	17.298	15.788	15.445	15.857	16.749
45 0	17·915	17.298	17·984	18·944	20.728	29.042	18.395	17.092	15.788	15.445	15.994	16.955
50 0	17·915	17·435	18·361	19·287	20.796	19.973	18.327	16.955	15.720	15.445	16.063	17.023
55 0	17.709	17.641	18.395	19·287	20.865	19.836	18.253	16.886	15.720	15.445	16.131	17.092

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
2 0	18.65	18.69	18.81	18.75	18.60	18.20	18.28	18.30	18.45	18.63	18.59	18.63
7 0	18.60	18.71	18.80	18.68	18.56	18.21	18.29	18.30	18.51	18.60	18.60	18.55
12 0	18.61	18.71	18.83	18.66	18.56	18.23	18.29	18.28	18.51	18.59	18.58	18.58
17 0	18.60	18.73	18.89	18.64	18.51	18.27	18.33	18.30	18.50	18.63	18.56	18.67
22 0	18.56	18.71	18.89	18.64	18.46	18.26	18.33	18.30	18.51	18.61	18.55	18.65
27 0	18 60	18.73	18.89	18.64	18.41	18.27	18.36	18.30	18.52	18.63	18.57	10.60
32 0	18.62	18.74	18.87	18.66	18.35	18.25	18.39	18.33	18.55	18.66	18.58	18.58
37 0	18.63	18.73	18.85	18.66	18.27	18.20	18.36	18.35	18.64	18.61	18.56	18.65
42 0	18.64	18.75	18.84	18.65	18.26	18.20	18.35	18.35	18.60	18.61	18.61	18.64
47 0	18.64	18.76	18.83	18.64	18.22	18.20	18.35	18.36	18.60	18.60	18.62	18.55
52 0	18.63	18.77	18.81	18.64	18.20	18.19	18.35	18.40	18.60	18.56	18.64	18.57
57 0	18.65	18.80	18.76	18.64	18·21	18.24	18.31	18.42	18.59	18.60	18.64	18.55
Therm.	79°7	79°6	79°6	79°6	79°6	79°9	80°8	81°2	82°3	82°8	83°7	83°6

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
3 0	14.75	14.76	14.81	14.85	14.94	14.92	14.88	14.88	14.76	14.64	14.60	14.47
8 0	14.75	14.76	14.82	14.86	14.94	14.91	14.88	14.86	14.76	14.64	14.60	14.46
13 0	14.75	14.77	14.82	14.87	14.94	14.91	14.88	14.86	14.75	14.62	14.60	14.46
18 0	14.75	14.77	14.82	14.87	14.95	14.91	14.88	14.86	14.75	14.62	14.60	14.45
23 0	14.75	14.77	14.82	14.89	14.95	14.90	14.87	14.85	14.75	14.62	14.60	14.44
28 0	14.74	14.78	14.83	14.89	14.96	14.90	14.87	14.85	14.73	14.60	14.58	14.44
33 0	14.75	14.80	14.84	14.91	14.96	14.89	14.89	14.84	14.70	14.56	14.50	14.43
38 0	14.75	14.80	14.84	14.91	14.97	14.89	14.88	14.82	14.68	14.54	14.50	14.42
43 0	14.75	14.82	14.85	14.92	14.97	14.89	14.88	14.81	14.68	14.54	14.50	14.40
48 0	14.76	14.82	14.86	14.92	14.95	14.89	14.88	14.81	14.67	14.54	14.48	14.41
53 0	14.76	14.81	14.86	14.93	14.94	14.88	14.88	14.80	14.67	14.54	14.48	14.41
58 0	14.76	14.81	14.85	14.93	14.92	14.88	14.88	14.80	14.66	14.60	14.47	14.40
Therm.	80°6	80°3	80°3	80°3	80°2	80°2	80°9	81°0	81°6	82°1	82°7	82°8

TERM-DAY OBSERVATIONS, ON THE 23RD OF SEPTEMBER 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
0 0	17'229	18'189	18'121	18'052	17'709	17'709	17'846	17'572	17'778	17'709	18'052	17'572
5 0	17.298	18.258	18.121	18.052	17.709	17.709	17.709	17.503	17.778	17.709	18.121	18.121
10 0	17.366	18.258	18.121	17.984	17.709	17.641	17.709	17.709	18.052	17.778	18.121	17.984
15 0	17.503	18.258	18.189	17.915	17.709	17.641	17.709	17.709	17.984	17.778	18.189	17.984
20 0	17.503	18.258	18.121	17.915	17.709	17.572	17.846	17.778	17.984	17.915	18.189	18.052
25 0	17.572	18.258	18.121	17.915	17.709	17.503	17.778	17.846	17.778	17.984	18.189	18.189
30 0	17.778	18.258	18.052	17.846	17.778	17.503	17.778	17.984	17.984	17.984	17.915	18.258
35 0	17.846	18.258	18.052	17.846	17.778	17.503	17.709	17.846	17.846	17.984	17.503	18.121
40 0	17.915	18.258	18.121	17.778	17.709	17.503	17.709	17.915	17.778	18.052	17.778	18.121
45 0	17.984	18.189	18.121	17.778	17.641	17.435	17.709	17.915	17.778	18.052	17.641	18.052
50 0	18.052	18.121	18.121	17.778	17.641	17.709	17.709	17.915	17.778	18.121	17.298	18.052
55 0	18.189	18.121	18.121	17.709	17.709	17.846	17.572	17.915	17.846	18.121	17.709	18.395

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
2 0	18.56	18.63	18.59	18.55	18.42	18.34	18.31	18.42	18.62	18.84	18.74	19.11
7 0	18.66	18.66	18.56	18.54	18.41	18.33	18.36	18.41	18.61	18.82	18.70	18.95
12 0	18.64	18.68	18.54	18.55	18.41	18.35	18.38	18.42	18.66	18.82	18.70	18.89
17 0	18.65	18.66	18.53	18.55	18.40	18.37	18.38	18.47	18.71	18.80	18.75	18.90
22 0	18.61	18.66	18.51	18.55	18.42	18.37	18.41	18.52	18.71	18.82	18.77	18.95
27 0	18.62	18.66	18.53	18.55	18.39	18.37	18.42	18.50	18.72	18.79	18.76	18.94
32 0	18.61	18.69	18.54	18.53	18.36	18.35	18.46	18.55	18.80	18.78	18.82	18.98
37 0	18.58	18.71	18 55	18.50	18.30	18.40	18.47	18.56	18.85	18.80	19.08	18.99
42 0	18.58	18.69	18.55	18.47	18.32	18.40	18.42	18.59	18.85	18.81	19.15	19.00
47 0	18.57	18.67	18.55	18.47	18.35	18.35	18.42	18.56	18.91	18.76	19.14	18.89
52 0	18.59	18.64	18.55	18.47	18.35	18.29	18.44	18.55	18.86	18.74	19.19	18.87
57 0	18.58	18.63	18.56	18.45	18.33	18.30	18.42	18.56	18.85	18.72	19.13	18.87
Therm.	83°9	83°3	82°6	82°0	81°4	81°1	81°0	81°0	79°8	79°7	79°7	79°9

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
3 0	14.40	14.42	14.40	14.41	14.48	14.56	14.65	14.73	14.79	14.89	14.98	15.02
8 0	14.40	14.40	14.40	14.42	14.48	14.57	14.68	14.73	14.80	14.90	14.98	15.04
13 0	14.38	14.40	14.40	14.43	14.50	14.57	14.67	14.73	14.83	14.90	14.99	15.08
18 0	14.38	14.40	14.39	14.42	14.50	14.59	14.67	14.73	14.83	14.91	14.99	15.10
23 0	14.38	14.40	14.40	14.43	14.50	14.59	14.68	14.73	14.85	14.91	15.00	15.10
28 0	14.38	14.41	14.40	14.45	14.50	14.59	14.69	14.74	14.85	14.91	15.00	15.08
33 0	14.37	14.40	14.41	14.47	14.51	14.60	14.70	14.74	14.85	14.93	15.00	15.08
38 0	14.37	14.40	14.41	14.50	14.52	14.61	14.70	14.75	14.86	14.93	15.00	15.07
43 0	14.37	14.40	14.41	14.48	14.52	14.60	14.70	14.75	14.86	14.94	15.00	15.07
48 0	14.37	14.40	14.40	14.49	14.54	14.61	14.70	14.75	14.86	14.96	15.00	15.07
53 0	14.38	14.40	14.42	14.48	14.55	14.64	14.70	14.75	14.86	14.97	15.00	15.05
58 0	14.41	14.40	14.41	14.48	14.56	14.64	14.72	14.78	14.89	14.98	15.02	15.05
Therm.	83°2	83°2	83°2	83°0	82°6	82°3	82°0	81°9	81°0	80°8	80°6	80°5

TERM-DAY OBSERVATIONS, ON THE 21ST OF OCTOBER 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
0 0	18'189	18'052	17'778	17'572	17'709	18'807	19'561	19'424	18'327	17'092	16'209	16'955
5 0	18.189	18.052	17.709	17.435	17.572	19.081	19.630	19.356	18.189	16.955	16.200	17.023
10 0	18.121	17.984	17.709	17.435	17.709	19.013	19.424	19.356	18.121	16.817	16.269	17.092
15 0	18.121	17.846	17.709	17.503	17.778	18.944	19.699	19.218	17.984	16.749	16.337	17.229
20 0	18.121	17.915	17.709	17.435	17.915	19.081	19.767	19.150	17.846	16.543	16.406	17.298
25 0	18.121	17.915	17.709	17.436	18.052	19.081	19.561	19.081	17.778	16.474	16.406	17.366
30 0	18.052	17.915	17.709	17.572	18.189	19.013	19.699	19.013	17.641	16.406	16.474	17.435
35 0	18.052	17.778	17.709	17.641	18.258	19.081	19.561	18.875	17.572	16.269	16.612	17.435
40 0	18.052	17.778	17.709	17.709	18.258	19.287	19.424	18.807	17.503	16.131	16.612	17.503
45 0	17.984	17.778	17.641	17.641	18.601	19.218	19.561	18.670	17.366	16.063	16.680	17.503
50 0	17.984	17.778	17.572	17.778	18.875	19.424	19.493	18.532	17.229	16.269	16.749	17.641
55 0	17.984	17.709	17.572	17.778	18.670	19.630	19.493	18.327	17.160	16.200	16.886	17.709

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
2 0	18.17	18.13	18.14	18.31	18.34	18.46	18.66	16.68	18.58	18.50	18.34	18.07
7 0	18.17	18.15	18.17	18.33	18.34	18.46	18.68	16.68	18.58	18.50	18.32	18.06
12 0	18.18	18.18	18.17	18.33	18.27	18.53	18.70	16.65	18.58	18.49	18.28	18.04
17 0	18.16	18.18	18.20	18.34	18.27	18.52	18.69	16.61	18.57	18.49	18.25	18.03
22 0	18.17	18.19	18.20	18.38	18.31	18.57	18.71	16.70	18.54	18.47	18.25	18.01
27 0	18.16	18.18	18.19	18.29	18.30	18.65	18.72	16.66	18.53	18.45	18.25	17.99
32 0	18.14	18.17	18.20	18.31	18.33	18.58	18.72	16.66	18.52	18.45	18.24	17.96
37 0	18.13	18.19	18.22	18.35	18.37	18.61	18.71	16.66	18.52	18.44	18.24	17.95
42 0	18.13	18.13	18.25	18.31	18.30	18.65	18.73	16.64	18.52	18.42	18.20	17.95
47 0	18.12	18.16	18.23	18.34	18.39	18.61	18.75	16.63	18.51	18.40	18.16	17.94
52 0	18.11	18.18	18.31	18.35	18.42	18.65	18.72	16.62	18.51	18.37	18.13	17.94
57 0	18.14	18.14	18.31	18.34	18.49	18.65	18.70	16.60	18.50	18.35	18.08	17.90
Therm.	83°0	82°5	82°2	82°1	81°9	81°4	81°9	83°1	84°7	85°7	86°5	86°8

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
3 0	18.10	18.11	18.11	18.15	18.15	18.15	18.18	18.18	18.17	18.15	18.12	18.10
8 0	18.10	18.11	18.11	18.15	18.15	18.15	18.18	18.18	18.17	18.15	18.12	18.10
13 0	18.10	18.11	18.11	18.15	18.15	18.15	18.16	18.18	18.18	18.14	18.12	18.10
18 0	18.10	18.11	18.11	18.15	18.15	18.18	18.16	18.18	18.18	18.14	18.12	18.10
23 0	18.10	18.11	18.11	18.14	18.15	18.18	18.17	18.17	18.17	18.14	18.11	18.10
28 0	18.10	18.11	18.11	18.14	18.16	18.18	18.17	18.17	18.17	18.14	18.11	18.10
33 0	18.10	18.11	18.11	18.14	18.15	18.16	18.17	18.17	18.16	18.14	18.11	18.10
38 0	18.10	18.11	18.11	18.14	18.15	18.17	18.19	18.17	18.15	18.13	18.10	18.10
43 0	18.10	18.11	18.11	18.14	18.15	18.18	18.19	18.18	18.15	18.13	18.10	18.10
48 0	18.10	18.11	18.11	18.15	18.15	18.18	18.19	18.18	18.15	18.13	18.10	18.10
53 0	18.10	18.11	18.15	18.15	18.15	18.18	18.19	18.17	18.15	18.13	18.10	18.09
58 0	18.11	18.11	18.15	18.15	18.15	18.18	18.18	18.17	18.15	18.12	18.10	18.09
Therm.	83°9	83°5	83°3	83°0	82°7	82°2	82°5	83°4	84°5	85°8	86°1	86°4

TERM-DAY OBSERVATIONS, ON THE 21ST OF OCTOBER 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
0 0	17'846	18'189	18'327	18'189	17'915	17'915	18'052	18'189	18'395	18'052	18'532	18'464
5 0	17.846	18.258	18.327	18.189	17.915	17.984	18.052	18.258	18.464	18.258	18.395	18.395
10 0	17.846	18.258	18.327	18.121	17.915	17.984	18.052	18.395	18.532	18.395	18.395	18.395
15 0	17.915	18.258	18.327	18.121	17.915	17.984	18.052	18.464	18.532	18.395	18.464	18.258
20 0	17.915	18.327	18.327	18.052	17.984	17.984	18.052	18.532	18.670	18.532	18.327	18.464
25 0	17.984	18.327	18.327	17.984	17.915	18.052	18.052	18.601	18.601	18.601	18.395	18.601
30 0	17.984	18.395	18.258	17.984	17.915	18.052	18.121	18.601	18.532	18.566	18.327	18.601
35 0	18.052	18.395	18.189	18.052	17.915	18.121	18.121	18.532	18.327	18.601	18.327	18.532
40 0	18.121	18.395	18.258	18.052	17.915	18.121	18.189	18.670	18.189	18.566	18.327	18.532
45 0	18.121	18.395	18.258	17.984	17.915	18.052	18.258	18.601	18.121	18.532	18.258	18.464
50 0	18.189	18.395	18.258	17.984	17.846	18.052	18.258	18.532	18.052	18.464	18.395	18.327
55 0	18.189	18.395	18.258	17.915	17.846	18.052	18.189	18.464	18.258	18.601	18.121	18.189

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
2 0	17.87	17.81	17.89	17.97	17.91	17.93	17.92	17.89	18.05	18.18	18.27	18.34
7 0	17.87	17.81	17.90	17.98	17.91	17.89	17.91	17.92	18.04	18.12	18.24	18.36
12 0	17.86	17.80	17.90	17.98	17.91	17.87	17.92	17.93	18.07	18.10	18.25	18.38
17 0	17.86	17.80	17.90	17.99	17.89	17.88	17.93	17.94	18.09	18.14	18.26	18.33
22 0	17.84	17.80	17.90	17.99	17.88	17.89	17.92	17.98	18.11	18.12	18.28	18.34
27 0	17.84	17.82	17.90	17.01	17.85	17.90	17.91	17.97	18.13	18.14	18.24	18.35
32 0	17.83	17.83	17.91	17.99	17.86	17.90	17.88	17.99	18.14	18.14	18.26	18.39
37 0	17.83	17.83	17.93	17.95	17.86	17.87	17.90	17.97	18.18	18.15	18.27	18.36
42 0	17.81	17.85	17.94	17.94	17.87	17.85	17.90	17.98	18.16	18.16	18.30	18.41
47 0	17.81	17.85	17.94	17.92	17.89	17.87	17.88	18.02	18.13	18.15	18.31	18.39
52 0	17.81	17.85	17.95	17.89	17.88	17.91	17.88	18.05	18.11	18.14	18.33	18.42
57 0	17.81	17.89	17.95	17.92	17.89	17.92	17.88	18.03	18.15	18.18	18.34	18.45
Therm.	86°8	86°7	86°0	85°3	84°5	84°3	83°9	83°5	83°0	83°0	82°4	81°9

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
3 0	18.09	18.02	18.00	17.97	17.95	17.96	17.97	17.98	17.99	18.01	18.00	18.00
8 0	18.09	18.02	18.00	17.97	17.95	17.96	17.97	17.99	17.99	18.01	18.00	18.00
13 0	18.09	18.00	18.00	17.97	17.95	17.96	17.97	17.98	18.00	18.01	18.00	18.00
18 0	18.08	18.00	18.00	17.97	17.95	17.96	17.97	17.98	18.00	18.01	18.00	18.00
23 0	18.08	18.00	18.00	17.97	17.95	17.96	17.97	17.98	18.00	18.02	18.00	18.00
28 0	18.08	18.00	18.00	17.96	17.95	17.96	17.97	17.98	18.00	18.01	18.00	18.00
33 0	18.07	18.00	18.00	17.96	17.95	17.96	17.97	17.98	18.00	18.01	18.00	18.00
38 0	18.06	18.00	18.00	17.96	17.95	17.97	17.97	17.98	18.00	18.01	18.00	18.01
43 0	18.06	18.00	17.98	17.96	17.96	17.97	17.97	17.98	18.00	18.01	18.00	18.01
48 0	18.05	18.00	17.97	17.96	17.96	17.97	17.97	17.98	18.00	18.01	18.00	18.02
53 0	18.04	18.00	17.97	17.95	17.96	17.97	17.98	17.99	18.01	18.01	18.00	18.02
58 0	18.02	18.00	17.97	17.95	17.96	17.97	17.98	17.99	18.01	18.00	18.00	18.02
Therm.	87°0	87°1	87°0	86°1	85°8	85°2	84°8	84°6	84°3	84°0	83°9	83°2

TERM-DAY OBSERVATIONS, ON THE 27TH OF NOVEMBER 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
0 0	18'395	17'778	18'429	18'327	18'121	18'601	19'561	19'424	18'738	18'532	19'150	19'561
5 0	18·395	17·984	18·327	18·121	18.121	18.670	19.356	19.356	18.670	18.532	19.218	19.561
10 0	18·327	18.052	18·327	18.258	18.327	18.807	19.424	19.287	18.670	18.532	19.287	19.561
15 0	18·189	18·189	18.395	18·395	18.258	18.944	19.424	19.081	18.670	18.464	19.356	19.661
20 0	18.121	18·223	18·327	18·189	18.189	18.738	19.424	19.013	18.670	18.532	19.356	19.493
25 0	18·086	18·189	18·395	18.327	18.121	18.875	19.493	18.944	18.601	18.601	19.424	19.493
30 0	18·052	18·223	18·327	18·395	18.258	19.013	19.493	18.875	18.670	18.601	19.424	19.493
35 0	18·052	18·258	18·189	18·395	18.258	19.013	19.493	18.875	18.601	18.601	19.493	19.424
40 0	18·018	18.189	18·395	18·327	18.189	19.081	19.630	18.944	18.601	18.601	19.561	19.356
45 0	17·984	18·327	18·327	18·258	18.327	19.150	19.630	18.875	18.670	18.670	19.561	19.218
50 0	17·915	18·292	18·395	18·327	18.532	19.150	19.424	18.807	18.601	18.807	19.561	19.218
55 0	17.846	18.361	18.189	18·395	18.532	19.081	19.356	18.738	18.601	19.013	19.561	19.218

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
2 0	19.07	19.37	19.33	19.50	19.61	19.57	19.75	19.84	19.81	19.63	19.28	19.03
7 0	19.16	19.35	19.36	19.52	19.60	19.60	19.77	19.85	19.80	19.61	19.28	19.01
12 0	19.17	19.36	19.39	19.48	19.65	19.62	19.75	19.86	19.79	19.57	19.23	19.00
17 0	19.21	19.35	19.37	19.48	19.65	19.62	19.75	19.87	19.79	19.52	19.20	18.99
22 0	19.16	19.35	19.40	19.50	19.68	19.64	19.74	19.87	19.76	19.48	19.19	18.97
27 0	19 17	19.34	19.37	19.49	19.66	19.63	19.74	19.86	19.73	19.47	19.16	18.95
32 0	19.16	19.34	19.38	19.50	19.62	19.65	19.76	19.84	19.70	19.43	19.11	18.94
37 0	19.18	19.34	19.42	19.52	19.60	19.66	19.79	19.84	19.69	19.39	19.10	18.94
42 0	19.22	19.32	19.43	19.54	19.58	19.68	19.81	19.84	19.67	19.35	19.09	18.93
47 0	19.27	19.30	19.44	19.54	19.54	19.71	19.81	19.84	19.65	19.31	19.07	18.92
52 0	19.30	19.33	19.45	19.54	19.53	19.72	19.84	19.84	19.63	19.29	19.06	18.91
57 0	19.35	19.37	19.48	19.56	19.55	19.73	19.85	19.84	19.63	19.28	19.04	18.88
Therm.	76°9	76°9	76°4	76°1	76°0	75°8	76°6	77°6	79°0	80°3	80°9	81°0

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
3 0	23.87	23.87	23.95	23.95	24.00	24.11	24.14	24.00	23.85	23.74	23.79	23.77
8 0	23.86	23.86	23.95	23.96	24.00	24.12	24.14	23.98	23.83	23.74	23.79	23.76
13 0	23.90	23.89	23.95	23.97	24.00	24.14	24.13	23.96	23.82	23.72	23.79	23.75
18 0	23.92	23.90	23.95	24.00	24.00	24.14	24.13	23.94	23.82	23.73	23.78	23.74
23 0	23.93	23.91	23.96	24.00	24.01	24.15	24.13	23.93	23.82	23.74	23.78	23.74
28 0	23.92	23.92	23.97	23.99	24.02	24.15	24.12	23.93	23.80	23.75	23.78	23.74
33 0	23.88	23.91	23.97	23.99	24.02	24.15	24.11	23.93	23.79	23.75	23.79	23.73
38 0	23.88	23.93	24.00	23.99	24.05	24.15	24.06	23.92	23.79	23.74	23.79	23.70
43 0	23.87	23.94	24.00	23.99	24.05	24.15	24.02	23.92	23.78	23.75	23.78	23.70
48 0	23.85	23.94	24.00	24.00	24.06	24.15	24.02	23.90	23.78	23.76	23.78	23.69
53 0	23.88	23.95	24.00	24.00	24.06	24.15	24.02	23.88	23.76	23.78	23.78	23.68
58 0	23.88	23.95	23.95	24.00	24.11	24.15	24.00	23.85	23.75	23.79	23.77	23.68
Therm.	77°0	77°0	76°9	76°7	76°4	76°0	76°0	76°4	77°0	78°1	78°9	79°4

TERM-DAY OBSERVATIONS, ON THE 27TH OF NOVEMBER 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
0 0	19'150	18'670	18'464	18'258	18'807	18'601	18'944	18'875	18'807	18'807	18'944	18'807
5 0	19.081	18.601	18.395	18.258	18.807	18.601	18.944	18.875	18.875	18.807	19.013	18.807
10 0	19.081	18.601	18.327	18.327	18.670	18.670	18.944	18.807	18.875	18.875	19.013	18.738
15 0	19.081	18.601	18.327	18.395	18.532	18.738	18.944	18.807	18.875	18.944	19.081	18.670
20 0	19.081	18.601	18.395	18.395	18.532	18.738	18.944	18.807	18.944	18.944	19.150	18.670
25 0	19.013	18.601	18.327	18.327	18.532	18.875	18.944	18.807	18.944	18.807	19.150	18.670
30 0	18.944	18.601	18.258	18.327	18.532	18.944	18.875	18.807	18.944	18.807	19.150	18.670
35 0	18.944	18.601	18.189	18.395	18.532	18.944	18.944	18.807	18.944	18.738	19.081	18.601
40 0	18.944	18.601	18.189	18.395	18.532	18.944	19.013	18.807	18.875	18.738	18.875	18.601
45 0	18.875	18.601	18.258	18.464	18.601	18.944	18.944	18.807	18.807	18.738	18.807	18.532
50 0	18.807	18.532	18.258	18.670	18.601	18.944	18.944	18.807	18.807	18.807	18.807	18.532
55 0	18.738	18.464	18.258	18.670	18.601	18.944	18.944	18.807	18.875	18.875	18.807	18.464

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
2 0	18.86	18.73	18.78	18.85	18.92	18.84	18.66	18.74	18.87	18.95	19.11	19.18
7 0	18.85	18.69	18.79	18.85	18.91	18.82	18.66	18.75	18.88	18.93	19.11	19.22
12 0	18.84	18.69	18.79	18.86	18.90	18.81	18.65	18.77	18.86	18.91	19.10	19.24
17 0	18.83	18.69	18.79	18.86	18.86	18.83	18.65	18.77	18.85	18.90	19.10	19.27
22 0	18.82	18.71	18.80	18.86	18.86	18.83	18.64	18.79	18.87	18.91	19.13	19.29
27 0	18.81	18.72	18.81	18.85	18.85	18.80	18.62	18.80	18.86	18.92	19.10	19.28
32 0	18.80	18.74	18.81	18.85	18.84	18.80	18.61	18.82	18.88	18.93	19.16	19.28
37 0	18.80	18.74	18.80	18.85	18.85	18.76	18.62	18.84	18.91	18.97	19.05	19.29
42 0	18.78	18.75	18.81	18.85	18.85	18.74	18.65	18.82	18.92	19.01	19.10	19.30
47 0	18.77	18.75	18.82	18.87	18.86	18.74	18.68	18.83	18.90	19.07	19.16	19.27
52 0	18.76	18.77	18.84	18.87	18.86	18.72	18.69	18.87	18.91	19.08	19.13	19.25
57 0	18.75	18.77	18.85	18.92	18.86	18.68	18.71	18.86	18.95	19.10	19.17	19.28
Therm.	81°1	81°3	80°9	80°1	79°2	78°8	78°8	78°7	78°2	78°0	77°5	77°3

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
3 0	23.68	23.62	23.68	23.70	23.80	23.81	23.81	23.82	23.84	23.85	23.92	23.92
8 0	23.65	23.60	23.68	23.70	23.80	23.81	23.81	23.80	23.85	23.86	23.90	23.94
13 0	23.65	23.59	23.69	23.72	23.80	23.81	23.81	23.80	23.85	23.86	23.90	23.95
18 0	23.64	23.58	23.70	23.72	23.80	23.81	23.80	23.80	23.85	23.86	23.90	23.95
23 0	23.63	23.59	23.70	23.74	23.80	23.80	23.80	23.81	23.85	23.88	23.90	23.96
28 0	23.63	23.60	23.70	23.76	23.80	23.80	23.80	23.82	23.85	23.89	23.91	23.96
33 0	23.61	23.62	23.70	23.76	23.80	23.80	23.80	23.82	23.85	23.89	23.91	23.97
38 0	23.60	23.63	23.70	23.79	23.80	23.80	23.81	23.82	23.85	23.90	23.91	23.96
43 0	23.62	23.65	23.70	23.79	23.80	23.80	23.81	23.83	23.85	23.90	23.88	23.96
48 0	23.63	23.65	23.70	23.80	23.80	23.80	23.81	23.83	23.85	23.90	23.88	23.96
53 0	23.64	23.66	23.70	23.80	23.80	23.80	23.82	23.84	23.85	23.92	23.89	23.96
58 0	23.62	23.67	23.70	23.80	23.81	23.81	23.82	23.84	23.85	23.92	23.90	23.97
Therm.	79°9	80°2	80°0	79°6	79°0	88°7	78°7	78°3	78°0	77°9	77°6	77°6

TERM-DAY OBSERVATIONS, ON THE 23RD OF DECEMBER 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
0 0	19'150	18'532	18'464	17'915	18'121	18'532	19'218	20'316	20'110	20'110	19'973	20'385
5 0	19.081	18.875	18.601	18.121	17.984	18.532	19.561	20.179	20.110	20.110	20.179	20.385
10 0	19.218	18.395	18.670	17.915	18.052	18.807	19.527	20.316	20.110	20.110	20.247	20.316
15 0	19.287	18.738	18.670	18.086	18.189	18.944	19.699	20.316	20.042	20.110	20.316	20.316
20 0	19.218	18.601	18.601	17.984	18.223	19.081	19.493	20.316	20.042	20.110	20.385	20.247
25 0	18.807	18.632	18.464	17.984	18.052	19.081	19.630	20.042	20.110	19.973	20.453	20.179
30 0	19.081	18.121	18.121	18.155	17.846	18.978	19.767	20.247	20.179	19.904	20.522	20.110
35 0	19.218	18.738	18.464	18.327	17.880	19.356	19.836	20.316	20.247	19.973	20.590	20.179
40 0	19.081	18.532	18.258	17.984	18.464	19.150	19.836	20.316	20.179	19.973	20.522	20.179
45 0	19.150	18.601	18.018	18.121	18.601	19.287	20.110	20.247	20.110	20.042	20.522	20.042
50 0	18.670	18.395	18.327	18.258	18.532	19.081	20.042	20.247	20.042	19.973	20.590	20.042
55 0	18.875	18.670	18.258	18.121	18.670	19.150	20.247	20.110	20.042	19.973	20.590	20.042

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
2 0	19.09	19.17	19.17	19.36	19.43	19.27	19.46	19.40	19.35	19.13	18.72	18.34
7 0	19.08	19.11	19.11	19.36	19.51	19.27	19.48	19.40	19.35	19.10	18.68	18.30
12 0	19.13	19.16	19.22	19.36	19.45	19.29	19.50	19.39	19.35	19.08	18.67	18.26
17 0	19.14	19.26	19.20	19.45	19.40	19.33	19.50	19.38	19.35	19.01	18.67	18.22
22 0	19.14	19.18	19.18	19.40	19.38	19.30	19.51	19.37	19.33	18.98	18.61	18.18
27 0	19.02	19.28	19.25	19.45	19.43	19.33	19.50	19.35	19.31	18.95	18.58	18.15
32 0	19.08	19.29	19.28	19.48	19.38	19.35	19.49	19.35	19.28	18.93	18.55	18.10
37 0	19.11	19.19	19.31	19.47	19.29	19.35	19.47	19.35	19.28	18.88	18.52	18.06
42 0	19.08	19.22	19.33	19.42	19.30	19.37	19.45	19.35	19.24	18.86	18.50	18.04
47 0	19.10	19.24	19.35	19.44	19.38	19.40	19.45	19.34	19.21	18.84	18.43	18.01
52 0	19.10	19.17	19.38	19.48	19.34	19.40	19.44	19.34	19.20	18.80	18.38	17.98
57 0	19.14	19.20	19.35	19.48	19.27	19.43	19.42	19.35	19.17	18.75	18.37	17.96
Therm.	74°8	74°0	73°6	73°9	74°0	74°0	74°6	75°8	76°9	78°3	79°8	81°3

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	10h	11h	12h	13h	14h	15h	16h	17h	18h	19h	20h	21h
M. S.												
3 0	23.96	23.95	23.97	24.05	24.13	24.18	24.21	24.25	24.18	24.10	24.00	23.83
8 0	23.99	23.95	23.96	24.05	24.06	24.19	24.21	24.24	24.18	24.10	23.99	23.82
13 0	23.95	23.96	23.98	24.06	24.10	24.19	24.21	24.24	24.16	24.08	23.99	23.82
18 0	23.95	23.96	23.97	24.05	24.11	24.20	24.22	24.24	24.15	24.08	23.98	23.80
23 0	23.96	23.96	23.97	24.04	24.12	24.19	24.22	24.24	24.15	24.07	23.97	23.80
28 0	23.94	23.96	23.97	24.06	24.12	24.20	24.25	24.24	24.14	24.05	23.95	23.78
33 0	23.94	23.96	23.98	24.07	24.10	24.18	24.27	24.24	24.14	24.04	23.94	23.77
38 0	23.95	23.95	23.98	24.07	24.10	24.19	24.27	24.21	24.12	24.03	23.93	23.77
43 0	23.94	23.95	23.99	24.10	24.15	24.19	24.28	24.21	24.12	24.01	23.92	23.77
48 0	23.94	23.95	23.98	24.11	24.16	24.20	24.28	24.20	24.11	24.01	23.88	23.75
53 0	23.94	23.95	24.00	24.09	24.15	24.19	24.25	24.20	24.10	24.00	23.88	23.75
58 0	23.95	23.97	24.02	24.11	24.17	24.20	24.25	24.18	24.10	24.00	23.85	23.74
Therm.	75°5	75°0	74°8	74°6	74°5	74°4	74°7	74°9	75°5	76°6	78°0	79°1

TERM-DAY OBSERVATIONS, ON THE 23RD OF DECEMBER 1857.

LARGE DECLINATION MAGNETOMETER (*in Arc*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
0 0	19'904	18'875	19'287	19'424	19'493	19'904	19'836	19'767	19'493	19'218	19'493	19'013
5 0	19.836	18.875	19.287	19.493	19.493	19.836	19.767	19.767	19.493	19.493	19.356	19.081
10 0	19.767	18.875	19.218	19.424	19.630	19.904	19.767	19.561	19.493	19.356	19.424	19.150
15 0	19.699	18.875	19.218	19.493	19.699	19.904	19.836	19.630	19.493	19.287	19.630	18.944
20 0	19.561	18.875	19.218	19.493	19.630	19.904	19.767	19.630	19.424	19.356	19.424	18.807
25 0	19.356	18.944	19.287	19.424	19.767	19.904	19.767	19.561	19.493	19.424	19.218	18.944
30 0	19.287	19.081	19.424	19.424	19.699	19.973	19.699	19.561	19.218	19.356	19.150	18.807
35 0	19.150	19.081	19.493	19.424	19.767	19.904	19.767	19.561	19.424	19.630	19.218	18.807
40 0	19.081	19.081	19.561	19.424	19.836	19.904	19.767	19.561	19.287	19.493	19.081	18.807
45 0	19.013	19.150	19.630	19.390	19.767	19.904	19.699	19.561	19.424	19.424	19.013	18.738
50 0	18.944	19.150	19.493	19.458	19.836	19.836	19.699	19.561	19.356	19.424	18.807	18.738
55 0	18.875	19.150	19.424	19.424	19.973	19.836	19.767	19.561	19.356	19.493	18.875	18.807

LARGE HORIZONTAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
2 0	17.92	17.89	17.81	17.89	17.82	17.91	18.03	18.17	18.34	18.60	18.78	19.07
7 0	17.92	17.87	17.81	17.88	17.84	17.92	18.04	18.19	18.35	18.60	18.82	19.06
12 0	17.91	17.86	17.82	17.90	17.80	17.92	18.08	18.20	18.35	18.63	18.83	19.10
17 0	17.91	17.84	17.82	17.91	17.79	17.91	18.15	18.22	18.35	18.66	18.81	19.07
22 0	17.90	17.84	17.82	17.93	17.82	17.92	18.12	18.23	18.38	18.68	18.82	19.03
27 0	17.90	17.83	17.84	17.94	17.82	17.95	18.11	18.26	18.42	18.68	18.85	19.05
32 0	17.90	17.81	17.84	17.95	17.83	17.94	18.10	18.27	18.46	18.69	18.89	19.14
37 0	17.91	17.81	17.84	17.90	17.84	17.96	18.10	18.29	18.51	18.71	18.92	19.10
42 0	17.90	17.81	17.85	17.90	17.82	17.95	18.10	18.30	18.54	18.72	18.93	19.05
47 0	17.89	17.81	17.85	17.90	17.84	17.98	18.10	18.33	18.55	18.72	18.94	19.05
52 0	17.89	17.81	17.86	17.82	17.86	17.98	18.10	18.32	18.57	18.77	19.02	19.01
57 0	17.89	17.81	17.87	17.84	17.93	18.00	18.14	18.32	18.58	18.83	19.02	19.06
Therm.	82°0	81°8	80°8	79°7	78°6	78°2	77°8	77°4	77°0	76°5	76°0	75°3

VERTICAL FORCE MAGNETOMETER (*in Scale Readings*).

Göttingen Mean Time.	22h	23h	Noon.	1h	2h	3h	4h	5h	6h	7h	8h	9h
M. S.												
3 0	23.73	23.70	23.82	23.82	23.89	23.95	23.98	23.98	24.02	24.03	24.04	24.01
8 0	23.73	23.72	23.82	23.82	23.88	23.95	23.98	23.99	24.02	24.03	24.04	24.02
13 0	23.72	23.73	23.82	23.82	23.88	23.94	23.98	24.00	24.02	24.03	24.04	24.05
18 0	23.70	23.75	23.83	23.83	23.88	23.95	23.99	24.01	24.02	24.03	24.04	24.05
23 0	23.70	23.77	23.83	23.84	23.89	23.96	23.99	24.01	24.02	24.04	24.04	24.06
28 0	23.70	23.78	23.84	23.85	23.90	23.96	24.00	24.01	24.02	24.04	24.04	24.05
33 0	23.70	23.79	23.84	23.87	23.91	23.96	24.00	24.01	24.03	14.04	24.03	24.06
38 0	23.70	23.79	23.85	23.87	23.92	23.97	24.00	24.01	24.03	24.04	24.04	24.07
43 0	23.70	23.79	23.83	23.87	23.92	23.96	24.00	24.01	24.03	24.04	24.02	24.05
48 0	23.70	23.80	23.83	23.89	23.92	23.97	24.00	24.02	24.03	24.05	24.02	24.05
53 0	23.68	23.81	23.82	23.88	23.93	23.97	23.99	24.02	24.03	24.05	24.02	24.04
58 0	23.70	23.82	23.82	23.88	23.94	23.97	23.98	24.02	24.03	24.05	24.02	24.04
Therm.	79°6	79°9	79°6	79°3	78°7	78°1	78°0	77°6	77°3	77°0	76°6	76°1

BOMBAY MAGNETICAL OBSERVATIONS.

REGISTER OF DISTURBANCE OBSERVATIONS.

DISTURBANCE OBSERVATIONS, 1857.

Date and Göttingen Mean Time.		Declination Magnetometer.		Horizontal Force Magnetometer Scale Reading Uncorrected.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.	
		Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.
		At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.
	H. M.			Sc. Read. Uncorrected.	Sc. Read. Uncorrected.			Sc. Read. Uncorrected.	
Feb. 10th.	2.30	21′482	19′57	18.43	16.88	80°0	78°0	26.55	81°8
	2.45	21.415	19.57	18.46	16.85	79.9	78.0	26.58	81·8
	3.00	21.276	19.21	18.47	16.90	79.8	78.0	26.55	81.4
	3.15	21.345	19.42	18.55	17.00	79.8	78.0	26.58	81.2
	3.30	21.276	19.26	18.70	17.20	79.7	77.8	26.70	81.0
	3.45	21.071	19.05	18.82	17.30	79.5	77.7	26.66	80.9
	4.00	21.002	18.95	18.83	17.30	79.4	77.6	26.70	80.8
May 7th.	3.00	16.406	14.98	18.50	17.28	86.6	85.4	20.86	88.0
	3.15	17.298	15.81	18.43	17.20	86.5	85.2	21.00	88.0
	3.30	17.572	16.12	18.25	16.95	86.3	85.2	20.95	87.8
	3.45	18.395	16.55	18.30	17.00	86.2	85.1	21.00	87.6
	4.00	18.601	16.85	18.23	16.80	86.0	85.0	21.05	87.4
	4.15	18.155	16.55	17.99	16.50	86.0	85.0	21.00	87·3
	4.30	18.875	17.22	17.92	16.39	86.0	84.8	21.04	87.3
	4.45	19.150	17.38	17.70	15.98	85.9	84.7	21.05	87.2
	5.00	19.013	17.69	17.47	15.70	85.9	84.7	21.00	87.2
	5.15	19.287	17.79	17.39	15.60	85.9	84.7	20.98	87.1
	5.30	19.150	17.33	17.31	15.50	85.9	84.6	20.98	87.0
	5.45	18.875	17.22	17.45	16.02	85.9	84.5	20.94	87.0
	6.00	18.875	17.69	17.75	16.17	85.9	84.5	20.98	87.0
	6.15	19.630	18.00	17.68	16.10	85.9	84.5	21.07	86.9
	6.30	19.013	17.38	17.91	16.30	85.9	84.3	20.98	86.8
	6.45	18.944	17.38	17.51	15.86	85.9	84.3	21.05	86.8
	7.00	19.218	17.33	17.65	15.98	85.8	84.3	21.08	86.7
	7.15	18.875	17.17	17.90	16.34	85.8	84.1	21.00	86.7
	7.30	19.081	17.69	17.71	15.90	85.7	84.0	21.15	86.7
	7.45	19.356	17.79	17.71	16.00	85.6	84.0	21.16	86.6
	8.00	19.287	17.33	17.46	15.65	85.6	84.0	21.19	86.5
	8.15	19.561	17.90	18.25	16.88	85.4	84.0	21.02	86.4
	8.30	19.086	16.96	18.30	16.98	85.3	83.9	21.00	86.4
	8.45	18.464	16.70	18.59	17.23	85.3	83.8	20.91	86.3
	9.00	18.464	16.81	18.47	17.10	85.3	83.8	21.00	86.3
	9.15	18.464	16.81	18.20	16.73	85.3	83.8	21.09	86.3
	9.30	18.532	17.07	18.05	16.52	85.2	83.7	21.01	86.2
	9.45	19.150	17.64	17.83	16.13	85.1	83.7	20.95	86.1
	10.00	19.321	17.95	17.46	15.54	85.0	83.6	20.90	86 1
	10.15	18.601	17.07	16.91	14.80	85.0	83.5	21.20	86.0
	10.30	18.532	16.65	17.09	15.25	85.0	83.3	21.18	86.0
	10.45	17.332	16·17	17.25	15.34	84.9	83.3	21.01	86.0
	11.00	18.258	17.33	17.28	15.43	84.9	83.3	20.99	86·0
	11.15	19.218	17.43	17.30	15.38	84.9	83.3	21.21	86.0
	11.30	18.395	16.70	17.23	15.23	84.9	83.3	21.05	85.9
	11.45	18.670	17.07	17.18	15.12	84.9	83.3	21.14	85.9
	12.00	18.327	16.17	17.21	14.95	84.9	83.2	20.92	85.9

DISTURBANCE OBSERVATIONS, 1857.

Date and Göttingen Mean Time.		Declination Magnetometer.		Horizontal Force Magnetometer Scale Reading Uncorrected.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.	
		Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.
		At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.
	H. M.			Sc. Read. Uncorrected.	Sc. Read. Uncorrected.			Sc. Read. Uncorrected.	
May 7th.	12.15	16·955	15·50	17.91	16.18	84°8	83°2	20.85	85°9
	12.30	18.189	16.95	17.95	15.94	84.8	83.0	21.21	85.9
	12.45	17.846	16.22	17.72	15.70	84.7	83.0	21.30	85.8
	13.00	17.229	15.70	17.62	15.72	84.7	82.8	21.05	85.8
	13.15	16.680	15.60	17.77	15.82	84.6	82.8	21.08	85.8
	13.30	18.944	17.59	17.60	15.40	84.6	82.8	21.50	85.8
	13.45	18.807	17.48	17.33	15.20	84.6	82.6	21.67	85.8
	14.00	19.904	19.05	17.10	14.90	84.5	82.6	21.76	85.6
	14.15	20.590	19.16	16.85	14.68	84.5	82.6	21.75	85.6
	14.30	20.728	19.05	17.11	15.28	84.7	82.5	21.65	85.6
	14.45	20.385	18.69	17.59	15.70	84.9	82.6	21.60	85.7
	15.00	20.865	19.16	17.39	15.20	85·0	83.0	21.70	85.8
	15.15	21.002	19.36	17.06	14.90	85.2	83.2	21.75	85.9
	15.30	21.826	20.10	16.70	14.50	85·3	83.4	21.60	85.9
	15.45	22.168	20.47	16.37	13.90	85.6	83.7	21.58	86.0
	16.00	22.444	20.62	16.41	14.30	85.8	83.8	21.50	86.0
	16.15	21.482	20.10	16.75	14.40	86.0	83.9	21.18	86.2
	16.30	21.826	20.21	16.35	13.82	86·3	83.9	21.28	86.3
	16.45	21.619	19.95	16.57	14.28	86.5	84.0	21.02	86.5
	17.00	21.139	19.57	16.43	14.06	86.7	84.1	20.95	86.7
	17.15	21·758	20.00	16.11	13.78	86.9	84.2	21.20	86.9
	17 30	19·973	17.95	16.44	14.20	87.0	84.4	20.80	87.0
	17.45	18.944	17.27	16.31	14.02	87·2	84.5	20.80	87.0
	18.00	18.944	17·38	16.52	14.40	87.4	84.7	20.73	87.2
	18.15	18.944	17.38	16.37	14.13	87·6	84.9	20.75	87.4
	18.30	19.493	17.69	16.17	14.10	87.8	85.2	20.80	87.5
	18.45	18.807	17.12	16.43	14.32	87.9	85.4	20.65	87.7
	19.00	19.013	17.53	16.08	13.66	88.1	85.7	20·62	87.9
	19.15	19.150	17.33	15.92	13.70	88.3	85.9	20.72	88.0
	19.30	18.670	16·91	16.13	13.98	88.6	86.0	20.55	88.1
	19.45	17.229	15.39	16.29	14.20	88·7	86.1	20.22	88.4
	20.00	16.406	14·61	16.23	14.10	88·8	86.2	20.08	88.4
	20.15	16.200	14.46	16.12	14.02	88.9	86.4	20.12	88.5
	20.30	15.788	14.19	16.15	14.07	88.9	86.6	20.12	88.6
	20.45	15.583	13.87	16.00	13.84	89.0	86.7	20.21	89.0
	21.00	14.828	13.46	15.90	14.00	89.0	86.8	20.15	89.1
	21.15	16.131	14.92	16.20	14.12	89.1	87.0	20.34	89.4
	21.30	16.749	15.18	16.06	13.90	89.3	87.1	20.50	89.5
	21.45	16.886	15.50	15.96	13.80	89.5	87.3	20.50	89.7
	22.00	17.503	15.91	15.98	13.91	89.5	87.4	20.55	89.7
	22.15	17.435	15.96	16.16	14.18	89.6	87.6	20.52	89.9
	22.30	17.641	16.02	16.23	14.22	89.7	87.7	20.61	90.0
	22.45	17.915	16.33	16.21	14.19	89.7	87.9	20.65	90.0
	23.00	17.984	16.43	16.24	14.20	89.6	87.9	20.74	90.2
	23.15	18.327	16.65	16.20	14.19	89·5	87.9	20.75	90.3
	23.30	18·189	16.60	16.19	14.20	89.4	87.7	20.69	90.3
	23.45	18.258	16.75	16.31	14.35	89.3	87.7	20.70	90.3
May 8th.	0.00	18.601	17.07	16.35	14.40	89.2	87.6	20.75	90.3
	0.15	19.081	17.43	16.31	14.40	89.0	87.5	20.81	90.2
	0.30	18.670	17.07	16.46	14.56	88.8	87.2	20.74	90.0
	0.45	18.875	17.33	16.45	14.50	88·6	87.0	20.78	89.9
	1.00	19.218	17.48	16.36	14.32	88.4	86.8	20.82	89.7
	1.15	19.493	17.85	16.22	14.20	88.1	86.6	20.82	89.6
	1.30	20.042	18.12	16.83	15.00	87.9	86.2	20.70	89.2
	1.45	20.385	18.64	16.86	15.00	87.6	86.0	20.75	89·0
	2.00	20.590	18.79	16.85	15.00	87.3	86.0	20.78	88.8
	2.15	20.247	18.64	16.94	15.00	87.1	85.8	20.75	88.6
	2.30	19.836	18.38	16.93	15.02	87.0	85.6	20.68	88.4
	2.45	19.699	18.12	16.86	15.00	87.0	85.5	20.64	88.2

DISTURBANCE OBSERVATIONS, 1857.

Date and Göttingen Mean Time.		Declination Magnetometer.		Horizontal Force Magnetometer Scale Reading Uncorrected.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.	
		Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.
		At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.
	H. M.			Sc. Read. Uncorrected.	Sc. Read. Uncorrected.			Sc. Read. Uncorrected.	
May 8th.	3.00	19·630	18·00	16.95	15.00	87°8	85°2	20.66	88°2
	4.00	19.561	17.85	17.11	15.20	86.0	84.8	20.74	87.7
	4.15	19.836	18.22	17.03	15.12	86.0	84.6	20.80	87.4
	4.30	19.904	18.12	17.10	15.14	85.9	84.4	20.77	87.3
	4.45	19.973	18.22	17.15	15.24	85.8	84·4	20.82	87.3
	5.00	19.904	18.27	17.20	15.30	85.8	84.3	20.84	87.2
	5.15	19.836	18.32	17.22	15.36	85.7	84.2	20.85	87.1
	5.30	19.904	18.43	17.17	15.38	85.6	84.1	20.88	87.0
	5.45	19.904	18.43	17.23	15.42	85.6	84.0	20.90	87.0
	6.00	19.973	18.64	17.29	15.48	85.6	84.0	20.92	87.0
	6.30	20.179	18.74	17.33	15.50	85.5	84.0	20.92	87·0
	7.00	20.316	18.74	17.46	15.70	85.5	84.0	20.94	86.9
	7.30	20.316	18.90	17.37	15.55	85.4	83.9	20.98	86.7
	8.00	20.453	19.10	17.34	15.48	85.3	83.8	20.98	86.7
	8.30	20.522	19.10	17.32	15.42	85.3	83.8	20.85	86.7
	9.00	20.728	19.16	17.55	15.68	85.3	83.8	20.70	86.7
	9.30	20.728	19.36	17.46	15.67	85.3	83.7	20.75	86.7
	10.00	20.728	19.31	17.71	15.98	85.0	83.7	20.89	86.7
May 10th.	7·00	20.865	19.57	17.55	16.48	87.2	85.1	20.36	88.1
	7.15	21.415	19.84	17.37	16.38	87.1	85.1	20.45	88.1
	7.30	21.415	19.79	17.57	16.38	87.0	85.0	20.40	88.0
	7.45	21.415	15.79	17.46	16.38	87.0	84.9	20.45	88.0
	8.00	21.482	19.84	17.43	16.32	87.0	84.8	20.48	87.9
	8.30	21·482	19.84	18·12	16.90	87.0	84.8	20.37	87.9
	9.00	21.619	20.05	17.90	16.80	86.9	84.8	20.44	87.9
	9.30	21.619	19.95	18.08	16.96	86.8	84.7	20.63	87.9
	10.00	21.551	19.79	18.05	16.70	86.6	84.5	20.60	87.8
Sept. 3rd.	19.45	16.063	16.48	16.12	16.68	83.4	80.5	16.22	82.9
	20.45	16.200	16.48	15.99	16.65	83.4	80.6	16.17	83.0
	20.15	16.337	16.55	15.83	16.52	83.4	80.6	16.22	83.0
	20.30	16.543	16.86	15.61	16.40	83.4	80.8	16.24	83.0
	20.45	16.474	16.91	16.05	16.60	83.7	80.8	16.22	83·0
	21.00	16.543	16.96	16.54	16.78	83.9	80.9	16.20	83.1
	21.15	16.886	17.27	16.81	16.88	84.0	81.0	16.22	83.2
	21.30	17.512	17.85	17.00	17.00	84.0	81.0	16.25	83.3
	21.45	18.121	18.05	17.09	17.04	83.7	80.9	16.25	83.2
	22.00	18.189	18.22	17.33	17.22	83.4	80.6	16.22	83.0
	22.15	18.601	18.84	17.34	17.28	83.0	80.4	16.25	82.4
	22.30	18.944	19.16	17.37	17.30	82.9	80.3	16.28	82.3
	22·45	19.150	19.36	17.48	17.33	82.8	80.3	16.30	82.1
	23.00	19.493	19.69	17.26	17.22	82.8	80.2	16.36	82.2
	23.15	19.424	19.69	17.56	17.32	82.6	80.2	16.34	82.2
	23.30	19.699	19.79	17.36	17.22	82.7	80.1	16.35	82.2
	23.45	19.699	19.89	17.46	17.28	82.8	80.1	16.32	82.4
	Noon.	19.630	19 89	17.47	17.28	82.9	80.3	16.30	82.4
	24.15	19.561	19.89	17.50	17.28	82.9	80.3	16.26	82.4
	24.30	19.561	19.89	17.45	17.25	82.8	80.3	16.22	82.4
	24.45	19.493	19.62	17.44	17.25	82.8	80.3	16.20	82.5
Sept. 4th.	1.00	19.287	19.42	17.54	17.29	82.7	80.3	16.18	82.7
	1.15	19.081	19.42	17.50	17.26	82.7	80.3	16.18	82.6
	1.30	19.287	19.52	17.43	17.22	82.6	80.2	16.20	82.6
	1.45	19.287	19.52	17.50	17.27	82.5	80.2	16.20	82.6
	2.00	19.493	19.74	17.41	17.27	82.1	80.2	16.20	82.5
	2.15	19.424	19.69	17.62	17.32	82.0	80.1	16.20	82.5

DISTURBANCE OBSERVATIONS, 1857.

Date and Göttingen Mean Time.		Declination Magnetometer.		Horizontal Force Magnetometer Scale Reading Uncorrected.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.	
		Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.
		At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.
	H. M.			Sc. Read. Uncorrected.	Sc. Read. Uncorrected.			Sc. Read. Uncorrected.	
Sept. 4th.	2.30	19·356	19·62	17.62	17.37	82°0	80°1	16·21	82°5
	2.45	19.150	19.36	17.66	17.39	82.0	80.0	16.17	82.4
	3.00	19.013	19.42	17.68	17.39	81.9	80.0	16.18	82.3
Sept. 21st.	5.00	20.728	20·99	17.16	17.60	79.1	78.1	16.19	80.0
	5.15	20.865	21.25	17.28	17.64	79.1	78.1	16.19	80.0
	5.30	21.139	21·25	17.43	17.70	79.1	78.1	16.19	80.0
	5.45	20.728	20.99	17.53	17·75	79·1	78.1	16.20	80.0
	6.00	20.865	21.04	17.76	17.90	79.0	78.0	16.20	79.9
	6.15	20.933	21.09	17.92	17.96	79.0	78.0	16.22	79.9
	6.30	20.933	21·09	18.02	17.99	79.0	78.0	16.24	79.9
	6.45	20.522	20.73	18.02	17·99	79.0	78.0	16.24	79.9
	7.00	20.179	20.41	17.87	17.94	78.9	77.9	16.24	79.8
	7.15	20.042	20.36	17.89	17.94	78·9	77.9	16.24	79.8
	7.30	20.042	20.36	17.95	17.94	78.9	77.9	16.24	79.8
	7.45	20.110	20.36	17.99	17.97	78.9	77·9	16.24	79.7
	8.00	20.179	20.36	18.10	18.00	79.0	77·9	16.25	79.6
	8.15	20.179	20·41	18.16	18.02	79·0	77·9	16.25	79.6
	8.30	19.973	20.21	18.21	18.02	79.0	77.9	16.25	79.6
	8.45	19.767	19.69	18.21	18·04	79.0	77.9	16.25	79.6
	9.00	19.493	19.84	18.20	18.04	79·0	77.7	16.24	79.4
Dec. 16th.	21.00	21.551	21.51	16.65		80.0	75.5	24.18	78.0
	21.15	22.444	22.04	15.90		80.2	76.0	24.40	78.2
	21.30	20.590	20·31	15.87		80.2	76.3	24·18	78.4
	21.45	19.630	20.05	16.36		80.2	76.6	24.02	78.6
	22.00	20.316	20·47	16.85		80·3	76.8	24.05	78.7
	22.15	21.002	21.66	16.82		80.3	77.0	24.22	78.9
	22.30	21.619	21.78	16.65		80.4	77·3	24.18	79.0
	22.45	21.963	23.13	16.98		80.5	77.4	24.20	79.0
	23.00	24.570	23.35	16.08		80·4	77.4	24.38	79.1
	23.15	23·677	23.23	15.19		80·4	77.4	24.35	79.2
	23.30	23.130	22·51	14.90		80.4	77.3	24.38	79.2
	23.45	21.071	21.93	14.55		80.3	77.2	24.24	79·2
Dec. 17th.	0.00	23.884	23.61	13.48	Under Adjustment.	80.1	77.1	24.44	79.1
	0.15	24.502	23.66	13.36		79.9	77.0	24.40	79.0
	0.30	24.502	23.61	13.39		79.7	76.8	24 38	79.0
	0.45	24.363	24.13	13.57		79.4	76.8	24.40	78.8
	1.00	22.512	22·82	13.33		79.1	76.8	24.25	78.8
	1.15	23.746	23.87	13.30		79.0	76.8	24.42	78.7
	1.30	23 198	23.08	13.55		78.8	76.8	24.34	78.7
	1.45	23.884	23.18	13·46		78.4	76.6	24.45	78.5
	2.00	23.404	23.35	13.64		78.2	76.6	24.40	78.4
	2.15	23.746	23.61	14.85		78.0	76.4	24.39	78.1
	2.30	24.226	23.66	15.04		78.0	76.2	24.51	78.0
	2.45	22.512	23.13	14.59		77.9	76.1	24.47	78.0
	3.00	24.502	23.87	14.33		77.8	76.0	24·77	78.0
	3.15	22.581	22·61	14.90		77.7	76·0	24.54	78.0
	3.30	21.619	21.78	14.94		77.6	76.0	24.54	77.9
	3.45	21.758	21.35	15.10		77.5	75.9	24.70	77.8
	4.00	19.904	20.14	16·15		77.5	75.8	24.66	77.5
	4.15	22.444	21.93	14.56		77.4	75.8	25.00	77.5
	4.30	21.826	21.56	14.16		77.3	75.7	24.80	77.4
	4.45	21.963	22.14	14.37		77.1	75.6	24.77	77.4
	5.00	23.335	23.35	14.57		77.0	75.5	24.90	77.3
	5.15	21.551	21.93	15.16		76.9	75.5	24·58	77.3
	5.30	22.581	22.30	15.45		76.5	75.3	24.80	77.0

DISTURBANCE OBSERVATIONS, 1857.

Date and Göttingen Mean Time.	Declination Magnetometer.		Horizontal Force Magnetometer Scale Reading Uncorrected.		Thermometer of Horizontal Force Magnetometer.		Vertical Force Magnetometer.	
	Large.	Small.	Large.	Small.	Large.	Small.	Mean Reading.	Thermometer.
	At Full Time.	5 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. after Full Time.	4 min. after Full Time.	2 min. before Full Time.	2 min. before Full Time.
H. M.			Sc. Read. Uncorrected.	Sc. Read. Uncorrected.			Sc. Read. Uncorrected.	
DEC. 17TH. 5.45	22·718	22·40	15.87		76°1	75°0	24.80	77°0
6.00	22.923	23.35	16.08		75.9	74.8	24.90	76.8
6.15	24.295	23.61	15.80		75.8	74.6	25.00	76.7
6.30	22.305	22.04	16.21		75.5	74.3	24.80	76.7
6.45	22.168	21.88	16.17		75.5	74.3	24.80	76·7
7.00	21.415	21.25	16.29		75.6	74.1	24.80	76.6
7.15	22.237	21.93	16.09		75.6	74.0	24.88	76.6
7.30	22.101	21.93	16.12		75.6	74.0	24.88	76.6
7.45	21.758	21.88	16.23		75.6	73.9	24.80	76.6
8.00	21.758	21.78	16.05		75.7	73.8	24.88	76.5
8.15	21.688	21.78	16.07		75.9	73.8	24.92	76.5
8.30	21.826	21.51	16.05		75.9	73.6	25.00	76.5
8.45	22.923	22.71	16.46		75.8	73.6	24.96	76.4
9.00	22.512	22.71	16.90		75.7	73.6	25.02	76.3
9.15	22.581	22.82	16.80		75.6	73.5	25.06	76.3
9.30	22 718	22.92	16.90		75.3	73.3	25.05	76.0
9.45	22.991	23.23	17.14		74.9	72.9	25.05	75.9
10.00	21.551	21.66	16.73		74.5	72.5	24.95	75.7
10.15	22.854	22.71	16.96		74·3	72.2	25.06	75.6
10.30	22.718	22.56	17.11	Under Adjustment.	73.9	72.0	25.05	75.4
10.45	21.895	21.78	17.85		73.7	71.8	24.95	75.3
11.00	21.551	21.78	17.02		73.4	71.5	24.92	75.0
11.15	21.688	22.92	17.00		73.2	71.3	25.12	74.9
11.30	21.826	21.56	17.10		73.1	71.0	25·07	74.7
11.45	19.767	20.31	17.21		72.9	70.7	24.86	74.5
12.00	20.247	20.21	17.40		72.7	70.3	24·95	74.2
12.15	20.247	20.31	17.39		72.6	70.2	24.99	74.2
12.30	19.973	20.31	17.39		72.3	70.0	25.00	74.0
12.45	19.767	19.69	17.54		72.0	70.0	25.00	73.9
13.00	19.493	20.00	17.39		72.0	70.0	24.99	73.7
13.15	20.590	20.73	17.43		72.0	70.0	25.15	73.7
13.30	20.453	20.52	17.42		72.0	69.8	25.02	73 5
13.45	20.247	20.73	17.41		72.0	69.7	25.14	73.5
14.00	20.042	20.47	17.60		72.0	69.6	25.11	73.3
14.15	20.247	20.93	17.66		71.9	69.6	25.14	73.2
14.30	20.522	20.52	17.63		71.9	69.4	25.14	73.0
14.45	20.522	20.47	17.60		71.9	69.4	25.27	73.0
15.00	19.424	19.69	17.68		72.0	69.3	25.18	73.0
15.15	19.904	20.15	17.83		72.0	69.3	25.30	73.0
15.30	19.424	20.21	17.91		72.3	69.4	25.34	73.1
16.45	19.699	19.95	17.96		72.6	69.4	25.37	73.2
16.00	19.699	20.15	17.98		73.0	69.5	25.37	73.3
16.15	19.493	19.69	18.05		73.6	69.9	25.28	73.4
16.30	19.013	19.16	18.10		74.1	70.0	25.24	73·6
16.45	18.532	19.16	18.05		74.6	70.0	25.20	73.8
17.90	19.013	18.95	18.00		74.8	70.2	25.14	73.9
17.30	19.013	18.95	18.00		75.0	70.6	25.08	74.0
17.45	18.738	18.84	18.04		75.5	70.8	24.92	74.4
DEC. 27TH. 23.30	18.738	18.79	16.99	11.26	82.8	77.5	23.76	80.8
23.45	19.013	19.26	17.11	11.44	82.7	77.8	23.82	80.9
DEC. 28TH. 0.00	18.944	18.95	17.09	11.38	82.7	78.0	23.85	80.8
0.30	18.807	18.69	17.09	11.75	81.8	78.0	23.90	80.3
1.00	19.013	19.16	17·31	12.20	80.9	77.6	23.92	80.0

BOMBAY MAGNETICAL OBSERVATORY.

ABSTRACTS OF THE RESULTS

OF THE

MAGNETICAL OBSERVATIONS.

1857.

BOMBAY MAGNETICAL OBSERVATIONS.

MAGNETICAL RESULTS.

UNDER this head are comprised the five Magnetic Elements :—

1st.—DECLINATION.
2nd.—HORIZONTAL FORCE.
3rd.—VERTICAL FORCE.
4th.—TOTAL FORCE.
5th.—DIP OR INCLINATION.

From the mean absolute values of these five elements, the Summary of the Results, and the necessary data for the Disturbance Calculations, have been principally extracted.

Observations of Inclinations were made twice a week, and the Observations of the Absolute Horizontal Force, as deduced from Deflection Observations, were made generally once a week during this year.

From the peculiar position of the large Declination Magnetometer with reference to the Transit Instrument, each observation becomes an absolute determination of the Declination.

By means of the absolute determinations of the Dip and Horizontal Force, the mean values obtained from the Scale Readings of the Vertical Force Magnetometer and Horizontal Force Magnetometer were duly corrected and registered in the Results; from the values thus corrected were calculated the Dip (deduced) and Total Intensity.

Disturbance, or Abnormal Days, were scrupulously thrown out in finding the hourly and monthly mean values of each Element.

It is necessary to remark that no disturbance of large magnitude occurred during the year 1857.

DECLINATION.

In this Observatory there are two Magnetic Declinometers in use, one a large and the other a small instrument, as described in the Introduction. The observations of the latter are only differential, being taken as a check on the projected curves of the former, consequently no results have been printed therefrom.

TABLE I.—*Mean Daily Values of Absolute Easterly Declination (in arc) for each day of Göttingen Mean and Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
1	19·490	20·115		19·919	19·364	19·955	18·901		19·313	17·982	18·175	18·375
2	19·562	19·801	20·007	20·123		20·194	18·584	18·550	18·635	17·897	18·074	18·481
3		20·250	19·996	19·815	19·276	19·804	18·660	18·818	19·339*		18·395	18·121
4	19·410	19·786	20·027		19·115	20·222			19·384*	17·712	18·658	18·482
5	19·729	19·964	19·794	19·687	19·019	19·887	18·920	19·024		18·135	18·652	
6	19·814	19·601	19·648	19·773	19·144		19·053	18·610	19·044	17·812	18·432	18·791
7	19·870			19·637	18·503*	19·836	18·887	18·768	19·456	17·838		18·532
8	19·767	20·218	19·924	19·756	19·833	19·636	18·803		19·153	17·532	18·432	18·530
9	19·710	20·130	19·739			19·596	19·256	18·907	19·027	17·672	18·584	18·928
10		20·133		19·341	20·256	19·759	19·074	19·004	19·384		18·711	18·876
11	19·593	20·022	20·062		20·330	19·834		18·455	19·296	17·921	18·700	18·016
12	19·710	20·105	19·867	19·794	19·933	19·890	19·013	19·001		17·893	18·821	
13	19·599	19·697	20·227	19·540	19·611		19·553	18·835	19·050	17·762	18·757	18·715
14	19·627			19·568	19·737	19·924	19·190		19·367	17·695		18·591
15	19·692	20·100	20·027	19·313	19·767	19·599	19·236		19·184	17·742	18·697	18·837
16	19·947	20·280	19·863	18·831		20·082	19·112	18·621	19·464		18·767	18·598*
17		19·984	20·179	19·314	19·450	19·835	19·304	18·784	19·381		18·977	20·603*
18	19·804	20·013	20·388		19·622	19·982		18·656	19·513	18·515	19·616	19·902*
19	20·007	20·224	19·967	19·645	19·927	19·919	19·430	18·756		18·231	18·724	
20	19·814	19·990	20·073	19·453	19·723		18·973	18·827	18·778	18·286	18·662	19·229
21	19·862			19·413	19·956	19·865	18·685	19·024	19·724	18·069		19·436
22	19·604	19·827	19·847	19·167	20·066	19·813	19·497		19·201	17·961	18·599	19·299
23	20·030	19·879	19·680	19 274		19·438	19·127	19·016	18·326	18·361	19·068	19·461
24		19·976	20·630	19·844	19·733	19.907	19·684	19·958	17·783		18·977	
25	20·307	19·854	20·024		19 867	19·476		19·163	17·675	18·443	18·924	18·025
26	20·093	20·022	20·129	19·318	19·893	19·696	19·073	18·824		18·338	18·541	
27	19·952	20·006	19·864	19.525	19·862		18·977	19·016	18·081	18·149	18·945	19·296*
28	19·930	20·300		19·150	19·712	19·716	19·101	18·759	18·007	18·007	18·558	19·475*
29	19·844		20·248	19·216	19·487	19·986	19·241	18·886	17·892	18·704		19·244
30	20·005		20·067	19·450	19·631	19·132	18·524		18·172	18·732	18·607	20·080
31			19·796				18·705	19·347				20·092

* This sign denotes an Abnormal day, or the day on which the Magnetic Disturbance occurred.

TABLE II.—*Showing the Number of Instances in which the Difference between the Mean Daily Values of Declination was within certain Limits.*

Difference between the Mean Daily Values of Declination on two consecutive Days.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole Number of Cases in the Year.
Greater than 6′ and less than 12′	9	6	8	5	8	2	9	9	5	7	4	6	78
,, 12 ,, 18	5	4	7	6	3	5	2	4	3	3	3	6	51
,, 18 ,, 24	1	2	4	3	5	4	3	1	4	2	3	5	37
,, 24 ,, 30	1	4	1	4	1	4	2	2	2	2	2	1	26
,, 30 ,, 36				2			2	2	2				8
,, 36 ,, 42		1	1		1		1		1	1	1	1	8
,, 42 ,, 48							1	1	2	1		1	6
,, 48 ,, 54						1	1		1		1	1	5
,, 54 ,, 60			1						1				2
,, 60					1							1	2

It appears from this Table that there were only two instances in which the difference between the mean daily values of Declination, on two consecutive days, was greater than one minute of arc: there were 29 instances in which the difference was greater than half a minute and less than one minute of arc.

TABLE III.—*Showing the Greatest and Least Difference between the Mean Daily Values of Declination on two consecutive Days.*

Months, 1857.	Difference between the Daily Means of consecutive Days.		Difference.	The Days between which the Difference was			
	Greatest.	Least.		Greatest.		Least.	
				D.	D.	D.	D.
January	0′426	0′022	0′404	22 &	23	27 &	28
February	0·617	0·003	0·614	6–	8	9–	10
March	0·950	0·011	0·939	23–	24	2–	3
April	0·570	0·028	0·542	23–	24	13–	14
May	1·330	0·026	1·304	7–	8	25–	26
June	0·854	0·020	0·834	29–	30	26–	28
July	0·812	0·046	0·766	21–	22	14–	15
August	0·795	0·008	0·787	24–	25	21–	23
September	0·946	0·045	0·901	20–	21	3–	4
October	0·773	0·026	0·747	15–	18	6–	7
November	0·888	0·000	0·888	18–	19	6–	8
December	2·005	0·002	2·003	16–	17	7–	8

It appears from this Table that during the year 1857 the mean difference of the values of two consecutive days did not exceed 2′.010 of arc. The greatest difference occurred between the 16th and 17th December, and the least occurred between the 6th and 8th of November.

TABLE IV.—*Showing the Greatest and Least Mean Daily Values of Declination in each Month of the Year* 1857.

Months, 1857.	Mean Daily Values of Declination.		Difference.	The Day on which the Mean Declination was	
	Greatest.	Least.		Greatest.	Least.
				D.	D.
January	20′307	19′410	0′897	25	4
February	20·300	19·601	0·699	28	6
March	20·630	19·648	0·982	24	6
April	20·123	18·831	1·292	2	16
May	20·330	18·503	1·827	11	7
June	20·222	19·132	1·090	4	30
July	19·684	18·524	1·160	24	30
August	19·958	18·455	1·103	24	11
September	19·724	17·675	2·049	21	25
October	18·732	17·532	1·200	30	8
November	19·616	18·074	1·542	18	2
December	20·603	18·121	2·482	17	3

It appears from this Table that the daily positions of the Declination Magnet were subject to less variations in the month of February than in any other month. It was subject to greatest variations in September and December. The extreme range between the mean positions of the Declination Magnet was 3.′098, being about 0.′17 higher than the mean of the last four years. The mean monthly difference was 1.°360, which was about 0.′16 higher than the mean of the last four years.

TABLE V.—*Showing, for the Year* 1857, *the Hours of Göttingen Mean Time at which the Value of Absolute (Easterly) Declination in Simple Hourly Observations of Declination Magnetometer in each Month was at its Maximum and Minimum.*

Months, 1857.	Declination in Simple Hourly Observations.		Extreme Range.	The Time at which the Declination was at its	
	Maximum.	Minimum.		Maximum.	Minimum.
				D. H.	D. H.
January	22′032	16′955	5′077	23&18	2&20
February	22·168	18·052	4·116	4– 18	9– 23
March	23·060	17·160	5·900	24– 16	23– 20
April	22·444	15·994	6·450	24– 16	16– 20
May	23·198	14·828	8·370	22– 15	7– 21
June	22·787	16·063	6·724	11– 16	11– 21
July	23·404	14·897	8·507	91– 5	2– 20
August	22·101	15·240	6·861	12– 15 26– 15	20– 20
September	23·404	13·867	9·537	16– 15	6– 20
October	20·728	14·210	6·518	18– 16	2– 20
November	21·482	15·720	5·762	9– 9	17– 13
December	24·570	14·759	9·811	16– 23	16– 15

It appears from this Table that the Declination Magnetometer attains its maximum reading between 15h. and 18h., while the time of minimum declination occurs at about 20h. or 21h. The times of maxima and minima in November and December were quite irregular.

TABLE VI.—*Showing, for each Month, the Mean Value of Absolute Declination in Arc, and its Periodic Changes from the Mean of the Year, as obtained from the Scale Readings of Large Declination Magnetometer.*

Months, 1857.	Mean Declination in Arc.	Difference from the Mean of the Year.	FOR SEASONS.
January	0°19′799	0 0′523	Mean of {Jan. Feb. March, Oct. Nov. Dec.} or Winter.. 0°19′255
February	20·019	0·743	
March	20·003	0·727	
April	19·515	0·239	Mean of {April, May, June, July, Aug. Sept.} or Summer. 0·19·297
May	19·689	0·413	
June	19·807	0·531	Mean of the year.... 0·19·276
July	19·058	− 0·218	
August	18·859	− 0·417	
September	18·857	− 0·419	Greatest monthly mean, in February .... 0·20·019
October	18·056	− 1·220	Least monthly mean, in October..... 0·18·056
November	18·694	− 0·582	
December	18·959	− 0·317	Difference.... 1·963

TABLE VII.—*Range of the Declination (in Arc) for each Day of Göttingen Mean Time, as obtained from the Large Declination Magnetometer.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
			En. Un.									
1	2′607	2′058		2′813	4′392	2′882	4′733		4′666	5′488	1′921	1′578
2	4·460	3·087	2′058	3·265		2·882	5·831	5′762	5·831	5·900	1·578	1·852
3		2·920	1·715	3·157	5·352	4·323	4·322	3·910	6·105		1·372	2·606
4	4·116	3·361	1·440		4·047	3·706			6·175	4·396	1·921	2·195
5	3·498	2·675	1·921	2·881	3·567	4·630	3·224	3·841		3·842	1·920	
6	2·196	2·470	3·088	3·361	4·255		4·116	4·459	8·470	4·665	1·097	2·744
7	2·881			4·459	7·616	4·117	4·322	5·695	7·204	4·116		2·332
8	1·098	3·088	2·126	1·920	5·109	6·175	4·528		5·420	4·253	1·098	1·989
9	3·156	4·322	2·166			4·253	6·587	5·489	6·655	4·185	3·979	2·985
10		3·294		2·813	4·941	4·903	4·184	4·392	7·204		1·989	2·195
11	2·195	1·029	1·990		4·872	6·724		5·213	5·076	2·127	2·058	2·264
12	2·401	1·852	1·921	3·397	5·213	3·979	6·518	5·215		3·362	3·087	
13	3·189	1·715	1·029	2·812	5·948		4·116	3·567	6·282	3·361	2·126	2·401
14	1·990			3·567	5·145	3·430	3·362		6·929	3·224		2·606
15	1·784	1·852	1·509	2·195	5·391	4·666	5·488		5·968	2·950	1·372	2·950
16	3·500	2·814	2·058	4·459		3·842	5·283	3·910	7·273		2·127	9·811
17		1·512	1·852	4·460	5·009	3·636	2·950	4·253	6·312		5·316	8·096
18	2·058	2·677	2·195		6·313	3·500		5·047	6·961	3·293	3·224	1·372
19	1·921	2·334	1·715	4·597	5·390	3·978	3·430	6·106		2·332	2·058	
20	1·783	2·126	2·058	4·527	6·243		3·910	6·792	7·822	1·989	1·509	1·441
21	2·058			3·704	6·380	3·930	5·352	5·616	5·970	3·361		1·920
22	2·195	2·401	3·224	3·155	5·695	3·979	4·802		6·656	2·607	3·018	1·578
23	2·951	1·853	4·872	3·704		3·156	4·391	4·733	5·351	2·538	4·185	3·224
24		1.989	3·567	5·229	6·312	3·501	4·185	5·421	5·969		3·087	
25	2·470	2·058	2·470		4·734	4·047		5·009	6·175	2·332	2·470	1·681
26	2·304	2·401	2·539	5·489	4·390	4·802	3·293	6·038		3·362	1·509	
27	1·715	2·195	1·852	3·711	4·460		3·292	5·557	4·665	1·509	1·921	2·607
28	2·401	1·646		3·362	4·152	4·117	2·401	5·214	5·008	1·715	1·715	2·469
29	1·852		2·402	4·046	4·871	4·289	4·255	4·457	3·978	1·852		2·744
30	2·264		2·676	3·773	4·598	4·734	4·733		4·733	1·920	2·195	3·567
31			1·920				3·567	3·635				4·185

TABLE VIII.—*Showing the Number of Instances in which the Daily Range of Declination (in Arc) was within certain Limits.*

Daily Range of Declination.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole Number of Cases in the Year.
Greater than 1′ and less than 2′	7	8	11	1						5	13	8	53
„ 2 „ 3	13	12	10	5		2	2			6	6	13	69
„ 3 „ 4	4	4	3	11	1	11	7	5	1	7	5	2	61
„ 4 „ 5	2	1	1	6	11	11	12	5	3	5	1	1	59
„ 5 „ 6				2	9		4	11	8	2	1		37
„ 6 „ 7					4	2	2	3	9				20
„ 7 „ 8					1				4				5
„ 8 „ 9									1			1	2
„ 9 „ 10												1	1

It appears from the last column of this Table that there were 242 days in which the arc, described by the Declination Magnet, was greater than 1′ and less than 5′; 57 days in which it was greater than 5′ and less than 7′; and 8 instances in which it was greater than 7′ and less than 10′. The arc was most commonly described between 1′ and 7′, a fact coincident with the result of the preceding year.

TABLE IX.—*Showing the Greatest and Least Daily Range of Declination in Arc, in each Month of the Year* 1857.

Months, 1857.	Daily Range of Declination.		Difference.	The Day on which the Range was	
	Greatest.	Least.		Greatest.	Least.
				D.	D.
January	4′460	1′098	3′362	4	8
February	4·322	1·029	3·293	9	11
March	4·872	1·029	3·843	23	13
April	5·489	1·920	3·569	26	8
May.....	7·616	3·567	4·049	7	5
June.....	6·724	2·882	3·842	11	1 & 2
July.....	6·587	2·401	4·186	9	28
August.....	6·792	3·567	3·225	20	13
September	8·470	3·978	4·492	6	29
October	5·900	1·509	4·391	2	27
November	5·316	1·097	4·219	17	6
December	9·811	1·372	8·439	16	18

It appears from this Table that times of the greatest and least ranges in one month were not similar to those of the other months: the daily ranges were larger in Summer than in Winter. The extreme difference between the greatest and least ranges is 8.′782, being the difference of the ranges of 16th December and 11th February.

TABLE X.—*Showing the Mean Monthly Range of Declination in Arc.*

Months, 1857.	Mean Monthly Range of Declination.	Excess above the Annual Mean.	FOR SEASONS.	
January	2'423	− 1'312		
February	2·329	− 1·406	Winter	2'572
March	2·254	− 1·481	Summer	4·892
April	3·634	− 0·101		
May	5·169	1·434	Annual mean	3.735
June	4·161	0·426		
July	4·339	0·604		
August	5·972	2·237		
September	6·110	2·375		
October	3·227	− 0·508	Greatest monthly mean, in September	6·110
November	2·302	− 1·433	Least monthly mean, in March	2·254
December	2·900	− 0·835		

The mean range in Summer was about 0.'4 higher than the range of the last year. The mean annual range was about 0.'1 higher than the mean of the last three years.

TABLE XI.—*Mean Values of Absolute (Easterly) Declination, in each Month, for each Hour of Göttingen Mean and Bombay Civil Time.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
													H. M.
Noon.	19·986	19·793	20·341	19·560	19·470	19·603	18·667	18·930	19·338	18·411	18·838	18·973	4 12 P.M.
1	20·081	20·009	19·972	19·528	19·491	19·640	18·840	19·129	18·998	18·091	18·614	18·885	5 12 „
2	20·014	20·094	19·803	19·329	19·293	19·422	18·787	18·844	18·653	17·855	18·738	18·941	6 12 „
3	20·034	20·129	19·715	19·142	19·193	19·195	18·549	18·530	18·650	17·923	18·798	19·101	7 12 „
4	20·076	20·055	19·748	19·106	19·307	19·255	18·474	18·504	18·710	18·003	18·907	19·178	8 12 „
5	20·012	20·116	19·921	19·283	19·513	19·473	18·660	18·587	18·767	18·074	18·969	19·042	9 12 „
6	20·031	20·127	19·976	19·463	19·756	19·676	18·878	18·708	18·964	18·173	19·135	19·089	10 12 „
7	20·036	20·121	20·055	19·693	19·979	19·836	19·163	18·870	19·133	18·371	19·158	19·186	11 12 „
8	19·964	20·140	20·031	19·815	20·087	20·071	19·371	18·946	19·153	18·425	19·102	19·069	Midnight.
9	19·869	20·064	20·004	19·939	20·396	20·150	19·493	19·118	19·153	18·379	19·047	18·907	1 12 A.M.
10	19·788	19·858	19·852	19·994	20·373	20·263	19·544	19·236	19·207	18·170	18·848	18·807	2 12 „
11	19·633	19·751	19·786	19·837	20·382	20·216	19·589	19·231	19·258	18·134	18·584	18·671	3 12 „
12	19·461	19·629	19·746	19·768	20·269	20·292	19·551	19·339	19·167	17·929	18·371	18·490	4 12 „
13	19·113	19·426	19·774	19·786	20·373	20·518	19·824	19·559	19·527	17·904	18·176	18·345	5 12 „
14	18·997	19·313	19·869	20·264	21·191	21·465	20·695	20·583	20·553	18·132	17·984	18·238	6 12 „
15	19·085	19·228	20·560	21·095	22·000	21·863	21·236	21·320	21·701	18·908	18·129	18·238	7 12 „
16	19·778	20·051	20·980	21·104	21·909	21·667	20·869	21·075	21·365	19·325	18·572	19·042	8 12 „
17	20·523	20·824	20·896	20·553	20·781	20·762	20·024	19·759	19·756	18·983	18·664	19·705	9 12 „
18	20·498	21·107	20·475	19·441	19·248	19·658	18·791	18·269	17·875	18·173	18·486	19·450	10 12 „
19	19·815	20·791	19·813	18·445	17·929	18·612	17·734	17·178	16·414	17·204	18·068	18·998	11 12 „
20	19·569	20·250	19·368	17·737	17·318	18·034	17·307	16·678	15·717	16·660	18·519	18·906	Noon.
21	19·565	20·011	19·380	17·880	17·433	18·108	17·374	16·663	16·243	16·809	19·056	19·342	1 12 P.M.
22	19·606	19·817	19·789	18·456	18·169	18·527	17·686	17·226	17·498	17·304	19·079	19·310	2 12 „
23	19·648	19·751	20·250	19·148	18·927	19·067	18·267	18·173	18·764	18·008	18·900	19·027	3 12 „

TABLE XII.—*Showing, for the Year* 1857, *the Hours of Göttingen Mean Solar Time about which the Mean Value of Absolute (Easterly) Declination, in each Month, was at its Maxima and Minima.*

Months, 1857.	The Mean Hourly Declination at its								Mean Diurnal Range.	The Time at which the Mean Hourly Declination was at its							
	1st Evening Maximum.	1st Evening Minimum.	2nd Evening Maximum.	2nd Evening Minimum.	Midnight Maximum.	Morning Minimum.	Morning Maximum.	Mid-day Minimum.		1st Evening Maximum.	1st Evening Minimum.	2nd Evening Maximum.	2nd Evening Minimum.	Midnight Maximum.	Morning Minimum.	Morning Maximum.	Mid-day Minimum.
										H	H	H	H	H	H	H	H
January ..	20·081	20·014	20·076	20·012	20·036	18·997	20·523	19·565	1·526	1	2	4	5	7	14	17	21
February ..	20·129	20·055	20·127	20·121	20·140	19·228	21·107	19·751	1·879	3	4	6	7	8	15	18	23
March	20·341	19·715			20·055	19·746	20·980	19·368	1·612	0	3			7	12	16	20
April	19·560	19·106			19·994	19·768	21·104	17·737	3·367	0	4			10	12	16	20
May.....	19·491	19·193	20·396	20·373	20·382	20·269	22·000	17·318	4·682	1	3	9	10	11	12	15	20
June	19·640	19·195			20·263	20·216	21·863	18·034	3·829	1	3			10	11	15	20
July.....	18·840	18·474			19·589	19·551	21·236	17·307	3·929	1	4			11	12	15	20
August....	19·129	18·504					21·320	16·663	4·657	1	4					15	21
September..	19·338	18·650			19·258	19·167	21·701	15·717	5·984	0	3			11	12	15	20
October ..	18·411	17·855			18·425	17·904	19·325	16·660	2·665	0	2			8	13	16	20
November ..	19·079	18·614			19·158	17·984	18·664	18·068	1·174	22	1			7	14	17	19
December..	19·342	18·885	19·178	19.042	19·186	18·238	19·705	18·906	1·467	21	1	4	5	7	{14 / 15}	17	20
For Winter, or.. {Jan. Feb. March. / Oct. Nov. Dec...}									1·720	24	2	5	6	7	14	17	20
For Summer, or.. {April. May. June. / July. Aug. Sept.}									4·408	25	3	9	10	11	12	15	20

It appears from this table that the marked end of the Declination Magnet, during this year, has reached its extreme easterly position at its morning maxima, except in November, in which month it took its extreme position at about 22h.; this fact nearly coincides with the results of the preceding year. The times of maxima and minima vary according to the seasons of the year. The diurnal movements of this element consist generally of triple maxima and triple minima; but in the months of January, February, May, and December, four maxima and four minima were apparent. The following are the times at which the maxima and minima of this element generally occur:—

First evening maximum, earlier in Winter and later in Summer.
First evening minimum, „ „ „ „
Second evening maximum, occasionally observed.
Second evening minimum, „ „
Midnight maximum, earlier in Winter and later in Summer.
Morning minimum, later in Winter and earlier in Summer.
Morning maximum, „ „ „
Mid-day minimum, remains nearly constant.

TABLE XIII.—*Showing, for the Year* 1857, *the Mean Absolute Easterly Declination in Arc for each Hour of Göttingen Mean and Bombay Civil Time; and also its Diurnal Changes from the Mean of the year.*

Göttingen Mean Solar Time.	Bombay Civil Time.	Mean Value of Absolute Easterly Declination.			Difference of hourly Mean from the Mean of the whole.	FOR DAY AND NIGHT.
		Winter.	Summer.	Annual Mean.		
	H. M.					
Noon.	4·12 P. M.	19°389	19°261	19°325	0°026	Mean of {2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,} or Night 19°334
1	5 12 „	·275	·271	·273	−0·026	
2	6 12 „	·241	·055	·148	−0·151	Mean of {14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 0, 1,} or Day 19·263
3	7 12 „	·283	18·876	·079	−0·220	
4	8 12 „	·328	·893	·111	−0·188	
5	9 12 „	·356	19·047	·201	−0·098	Mean..... 19·299
6	10 12 „	·422	·241	·332	0·033	
7	11 12 „	·488	·446	·467	0·168	TIMES OF MEAN MAXIMUM AND MINIMUM.
8	0·12 A. M.	·455	·574	·514	0·215	In Winter.
9	1 12 „	·378	·708	·543	0·244	
10	2 12 „	·220	·770	·495	0·196	A maximum at about Noon or 4 P. M.
11	3 12 „	·093	·760	·427	0·128	A minimum at about 2 or 6 P. M.
12	4 12 „	18·938	·731	·334	0·035	A maximum at about 7 or 11 P. M.
13	5 12 „	·790	·931	·361	0·062	A minimum at about 14 or 6 A. M.
14	6 12 „	·755	20·792	·773	0·474	A maximum at about 17 or 9 „
15	7 12 „	19·025	21·536	20·281	0·982	A minimum at about 20 or Noon.
16	8 12 „	·625	·331	·473	1·174	
17	9 12 „	·932	20·272	·102	0·803	In Summer.
18	10 12 „	·698	18·880	19·289	−0·010	
19	11 12 „	·115	17·759	18·937	−0·362	A maximum at about 1 or 5 P. M.
20	0·12 P. M.	18·879	·149	·014	−1·285	A minimum at about 3 or 7 P. M.
21	1 12 „	19·027	·283	·155	−1·145	A maximum at about 10 or 2 A. M.
22	2 12 „	·151	·927	·539	0·760	A minimum at about 12 or 4 A. M.
23	3 12 „	·264	18·724	·994	0·305	A maximum at about 15 or 7 A. M.
						A minimum at about 20 or Noon.

If the mean daily value of absolute declination is to be determined from two observations, taken daily in each month, the times indicated as best for doing so are 5h. and 10h. P. M.; 4h. P. M. and 10h A. M.; or 8h. A. M. and 1h. P. M. Single observations at 4h. or 5h. P. M. will give results near enough to the mean daily values of any day.

TABLE XIV.—*Excess of the Mean Hourly Values of Absolute Declination above the Monthly Mean Value.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
													H. M.
Noon.	0·187	−0·226	0·338	0·045	−0·216	−0·204	−0·391	0·071	0·481	0·355	0·134	0·014	4 12 P.M.
1	0·282	−0·010	−0·031	0·013	−6·198	−0·167	−0·218	0·270	0·141	0·035	−0·080	−0·074	5 12 „
2	0·215	0·075	−0·200	−0·186	−0·396	−0·385	−0·271	−0·015	−0·204	−0·201	0·044	−0·018	6 12 „
3	0·235	0·110	−0·288	−0·373	−0·496	−0·612	−0·599	−0·329	−0·207	−0·133	0·104	0·142	7 12 „
4	0·277	0·036	−0·255	−0·409	−9·382	−0·552	−0·584	−0·355	−0·147	−0·053	0·213	0·219	8 12 „
5	0·213	0·097	−0·082	−0·232	−0·176	−0·334	−0·398	−0·272	−0·090	0·018	0·275	0·083	9 12 „
6	0·232	0·108	−0 027	−0·052	0·067	−0·131	−0·180	−0·151	0·107	0·117	0·441	0·130	10 12 „
7	0·237	0·102	0·052	0·178	0·290	0·291	0·105	−0·011	0·276	0·315	0·464	0·227	11 12 „
8	0·165	0·121	0·028	0·300	0·398	0·264	0·313	0·087	0·296	0·369	0·408	0·110	Midnight.
9	0·070	0·045	0·001	0·424	0·507	0·343	0·435	0 259	0·296	0·323	0·353	−0·052	1 12 A.M.
10	−0·011	−0·161	−0·151	0·479	0·684	0·456	0·486	0·377	0·350	0·114	0·154	−0·152	2 12 „
11	−0·166	−0·268	−0·217	0·322	0·693	0·409	0·531	0·422	0·401	0·078	−0·110	−0·288	3 12 „
12	−0·338	−0·390	−0·257	0·253	0·580	0·485	0·493	0·480	0·310	−0·127	−0·323	−0·469	4 12 „
13	−0·686	−0·593	−0·229	0·271	0·684	0·711	0·766	0·700	0·670	−0·152	−0·518	−0·614	5 12 „
14	−0·802	−0·706	−0·134	0·749	1·502	1·658	1·637	1·724	1·696	0·076	−0·710	−0·721	6 12 „
15	−0·714	−0·791	0·557	1·580	2·311	2·056	2·178	2 461	2·844	0·852	−0·565	−0·721	7 12 „
16	−0·021	0·032	0·977	1·589	2·220	1·860	1·811	2·216	2·508	1·269	−0·122	0·083	8 12 „
17	0·724	0·805	0·893	1·038	1·092	0·955	0·966	0·900	0·899	0·927	−0·030	0·746	9 12 „
18	0·699	1·088	0·472	−0·074	−0·441	−0·149	−0·267	−0·590	−0·982	0·117	−0·208	0·049	10 12 „
19	0·016	0·772	−0·190	−1·070	−1·760	−1·195	−1·324	−1·681	−2·443	−0·852	−0·626	0·039	11 12 „
20	−0·230	0·231	−0·635	−1·778	−2·371	−1·773	−1·751	−2·181	−3·140	−1·396	−0·175	−0·053	Noon.
21	−0·234	−0·008	−0·623	−1·635	−2·256	−1·699	−1·684	−2·196	−2·614	−1·247	0·362	0·383	1 12 P.M.
22	−0·193	−0·202	−0·214	−1·059	−1·520	−1·280	−1·372	−1·633	−1·359	−0·752	0·385	0·351	2 12 „
23	−0·151	−0·268	0·247	−0·367	−0·762	−0·740	−0·791	−0·686	−0·093	−0·048	0·206	0·068	3 12 „

TABLE XV.—*Showing the Number of Hours, in each Month, deduced from the Hourly Means, during which the Magnet was on each side of the Mean Position for that Month.*

Months, 1857.	The marked end of the Magnet was East of the Mean Position	Length of Time the marked end was East of the Mean Position.			The marked end of the Magnet was West of the Mean Position	Length of Time the marked end of the Magnet was West of the Mean Position.		
		1st inst.	2nd inst.	3rd inst.		1st inst.	2nd inst	3rd inst.
January ..	Between Noon and 9h. and 17h. and 19h.	10	3		Between 10h. and 16h. and 20h. and 23h.	7	4	
February ..	Between 2h. and 9h. and 16h. and 20h..	8	5		Between 21h. and 1h. and 10h. and 15h.	5	6	
March	Between 23h. and Noon and 7h. and 9h. and 15h. and 18h.....	2	3	4	Between 1h. and 6h. and 10h. and 14h. and 19h. and 22h	6	5	4
April	Between Noon and 1h. and 7h. and 17h..	2	11		Between 2h. and 6h. and 18h. and 23h.	5	6	
May.....	Between 6h. and 17h.....	12			Between 18h. and 5h.....	12		
June.....	Between 7h. and 17h.....	11			Between 18h. and 6h.....	13		
July.....	Between 7h. and 17h.....	11			Between 18h. and 6h.....	13		
August....	Between Noon and 1h. and 8h. and 17h..	2	10		Between 2h. and 7h. and 18h. and 23h..	6	6	
September. .	Between Noon and 1h. and 6h. and 17h.	2	12		Between 2h. and 5h. and 18h. and 23h..	4	6	
October....	Between Noon and 1h. and 5h. and 11h. and 14h. and 18h	2	7	5	Between 2h. and 4h. and 12h. and 13h. and 19h. and 23h	3	2	5
November. .	Between 21h. and Noon and 2h. and 10h.	4	9		At 1h. and between 11h. and 20h.....	1	10	
December..	Between 21h. and Noon and 3h. and 8h. and 16h. and 19h	4	6	4	Between 1h. and 2h. and 9h. and 15h. and at 20h	2	7	1

It appears from this table that the Declination Magnet passed the mean magnetic meridian four times every day in nine months, from August to April, but in the remaining three months it was only twice in the meridian. About the beginning and close of the SW. Monsoon, or in the months of March and October, two more meridian passages of the magnet took place at 1h. and 12h., a fact similar to what was observed during the last two years.

TABLE XVI.—*Showing the Differences in the Mean Positions of the Declination Magnet between every Pair of Consecutive Hours in each Month, estimated positive when the Declination was greater at the latter Hour.*

Time.	MONTHS, 1857.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Between 0 and 1	0·095	0·216	−0·369	−0·032	0·021	0·037	0·173	0·199	−0·340	−0·320	−0·214	−0·088
1 and 2	−0·067	0·085	−0·169	−0·199	−0·198	−0·218	−0·053	−0·285	−0·345	−0·236	0·124	0·056
2 and 3	0·020	0·035	−0·088	−0·187	−0·100	−0·227	−0·238	−0·314	−0·003	0·068	0·060	0·160
3 and 4	0·042	−0·074	0·033	−0·036	0·114	0·060	−0·075	−0·026	0·060	0·080	0·109	0·077
4 and 5	−0·064	0·061	0·173	0·177	0·206	0·218	0·186	0·083	0·057	0·071	0·062	−0·136
5 and 6	0·019	0·011	0·055	0·180	0·243	0·203	0·218	0·121	0·197	0·099	0·166	0·047
6 and 7	0·005	−0·006	0·079	0·230	0·223	0·160	0·285	0·162	0·169	0·198	0·023	0·087
7 and 8	−0·072	0·019	−0·024	0·122	0·108	0·235	0·208	0·076	0·020	0·054	−0·056	−0·117
8 and 9	−0·095	−0·076	−0·027	0·124	0·309	0·079	0·122	0·172	0·000	−0·046	−0·055	−0·162
9 and 10	−0·081	−0·206	−0·152	0·055	−0·023	0·113	0·051	0·118	0·054	−0·209	−0·199	−0·100
10 and 11	−0·155	−0·107	−0·066	−0·157	0·009	−0·047	0·045	0·045	0·051	−0·036	−0·264	−0·136
11 and 12	−0·172	−0·122	−0·040	−0·069	−0·113	0·076	−0·038	0·058	−0·091	−0·205	−0·213	−0·181
12 and 13	−0·348	−0·203	0·028	0·018	0·104	0·226	0·273	0·220	0·360	−0·025	−0·195	−0·145
13 and 14	−0·116	−0·113	0·095	0·478	0·818	0·947	0·871	0·024	1·026	0·228	−0·192	−0·107
14 and 15	0·088	−0·085	0·691	0·831	0·809	0·398	0·541	0·737	1·148	0·776	0·145	0·000
15 and 16	0·693	0·823	0·420	0·009	−0·091	−0·196	−0·367	−0·245	−0·336	0·417	0·443	0·804
16 and 17	0·745	0·773	−0·084	−0·551	−1·128	−0·905	−0·845	−1·316	−1·609	−0·342	0·992	0·663
17 and 18	−0·025	0·283	−0·421	−0·112	−1·533	−1·104	−1·233	−1·490	−1·881	−0·810	−0·178	−0·255
18 and 19	−0·683	−0·316	−0·662	−0·996	−1·319	−1·046	−1·057	−1·091	−1·461	−0·969	−0·418	−0·452
19 and 20	−0·246	−0·541	−0·445	−0·708	−0·611	−0·578	−0·427	−0·500	−0·697	−0·544	0·451	0·092
20 and 21	−0·004	−0·239	0·012	0·143	0·115	0·074	0·067	−0·015	0·526	0·149	0·537	0·436
21 and 22	0·041	−0·194	0·409	0·576	0·736	0·419	0·312	0·563	1·255	0·495	0·023	0·032
22 and 23	0·042	−0·066	0·461	0·692	0·758	0·540	0·581	0·947	1·266	0·704	−0·179	−0·283
23 and 24	0·338	0·042	0·091	0.412	0·543	0·537	0·400	0·757	0·574	0·403	−0·072	−0·054

TABLE XVII.—*This Table is formed by taking the Means of the Numbers in the preceding Table, without regard to their Signs.*

Between what Hour.	Amount of Difference of Mean Position in Summer.	Character of Changes in Summer.	Amount of Difference of Mean Position in Winter.	Character of Changes in Winter.
Noon and 1	0'134	Rising, except in April and September.	0'217	Falling, except in January and February.
1 and 2	0·216	Generally falling.	0·123	Variable.
2 and 3	0·178	,, ,,	0·072	Rising, except in March.
3 and 4	0·062	Variable.	0·069	Rising, except in February.
4 and 5	0·154	Generally rising.	0·094	Falling at the beginning and end of the season.
5 and 6	0·194	,, ,,	0·066	Generally rising.
6 and 7	0·205	,, ,,	0·068	Rising, except in February.
7 and 8	0·128	,, ,,	0·057	Variable.
8 and 9	0·135	,, ,,	0·077	Generally falling.
9 and 10	0·069	Rising, except in May.	0·158	,, ,,
10 and 11	0·059	Rising, except in April and June.	0·127	,, ,,
11 and 12	0·074	Falling, except in June and August.	0·155	,, ,,
12 and 13	0·200	Rising.	0·157	Falling, except in March.
13 and 14	0·861	,,	0·142	Falling, except in March and October.
14 and 15	0·742	,,	0·298	Rising, except in February.
15 and 16	0·207	Falling, except in April.	0·600	Generally rising.
16 and 17	1·059	Generally falling.	0·450	Rising, except in March and October.
17 and 18	1·392	,, ,,	0·329	Falling, except in February.
18 and 19	1·162	,, ,,	0·583	Generally falling.
19 and 20	0·587	,, ,,	0·386	Falling, except in November.
20 and 21	0·157	Rising, except in August.	0·230	Falling at the beginning of the season.
21 and 22	0·644	Generally rising.	0·199	Rising, except in February and December.
22 and 23	0·797	,, ,,	0·172	Variable.
23 and Noon	0·537	,, ,,	0·166	Falling at the end of the season.

TABLE XVIII.—*Mean Hourly Values of Absolute Declination diminished by the Monthly Mean, and the Mean Diurnal Change for each Hour.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
													H. M.
Noon.	0'161	-0'252	0'312	0'019	-0'245	-0'230	-0'417	0'045	0'455	0'329	0'108	-0'012	4 12 P.M.
1	0·308	0·016	-0·005	0·039	-0·172	-0·157	-0·192	0·296	0·167	0·061	-0·054	-0·048	5 12 ,,
2	0·366	0·226	-0·049	-0·035	-0·245	-0·234	-0·120	0·136	-0·053	-0·050	0·195	0·133	6 12 ,,
3	0·455	0·330	-0·068	-0·153	-0·276	-0·392	-0·289	-0·109	0·013	0·087	0·324	0·362	7 12 ,,
4	0·465	0·224	-0·067	-0·221	-0·194	-0·364	-0·386	-0·167	0·041	0·135	0·401	0·407	8 12 ,,
5	0·311	0·195	0·016	-0·134	-0·078	-0·236	-0·300	-0·174	0·008	0·080	0·373	0·015	9 12 ,,
6	0·199	0·075	-0·069	-0·019	0·034	-0·164	-0·147	-0·184	0·074	0·084	0·408	0·097	10 12 ,,
7	0·169	-0·066	-0·116	0·010	0·122	0·123	-0·063	-0·179	0·108	0·147	0·296	0·059	11 12 ,,
8	-0·050	-0·094	-0·187	0·085	0·183	0·049	0·098	-0·128	0·081	0·154	0·193	-0·105	Midnight.
9	-0·174	-0·199	-0·243	0·180	0·263	0·099	0·191	0·015	0·052	0·079	0·109	-0·296	1 12 A.M.
10	-0·207	-0·357	-0·347	0·283	0·488	0·260	0·290	0·181	0·154	-0·082	-0·042	-0·348	2 12 ,,
11	-0·294	-0·396	-0·345	0·194	0·565	0·281	0·403	0·294	0·273	-0·050	-0·238	-0·416	3 12 ,,
12	-0·373	-0·425	-0·292	0·218	0·545	0·450	0·458	0·445	0·275	-0·162	-0·358	-0·504	4 12 ,,
13	-0·748	-0·655	-0·291	0·209	0·622	0·649	0·704	0·638	0·608	-0·214	-0·580	-0·676	5 12 ,,
14	-1·276	-1·180	-0·608	0·275	1·028	1·184	1·163	1·250	1·222	-0·398	-1·184	-1·195	6 12 ,,
15	-1·696	-1·773	-0·425	0·598	1·329	1·074	1·196	1·479	1·862	-0·130	-1·547	-1·703	7 12 ,,
16	-1·195	-1·142	-0·197	0·415	1·046	0·686	0·637	1·042	1·334	0·095	-1·296	-1·091	8 12 ,,
17	-0·079	0·002	0·090	0·235	0·289	0·152	0·163	0·097	0·096	0·124	-0·833	-0·057	9 12 ,,
18	0·709	1·098	0·482	-0·064	-0·431	-0·139	-0·257	-0·580	-0·972	0·127	-0·198	0·501	10 12 ,,
19	0·378	1·134	0·172	-0·708	-1·398	-0·833	-0·962	-1·319	-2·081	-0·490	-0·264	0·401	11 12 ,,
20	1·055	1·516	0·650	-0·493	-1·086	-0·488	-0·466	-0·896	-1·855	-0·111	1·110	1·232	Noon.
21	0·910	1·136	0·521	-0·491	-1·116	-0·555	-0·540	-1·052	-1·470	-0·103	1·506	1·527	1 12 P.M.
22	0·567	0·558	0·546	-0·299	-0·760	-0·520	-0·612	-0·873	-0·599	0·008	1·145	1·111	2 12 ,,
23	0·154	0·037	0·552	-0·062	-0·457	-0·435	-0·486	-0·381	0·212	0·257	0·511	0·373	3 12 ,,

TABLE XIX.—*Showing, for each Month, the Mean Diurnal Inequality of the Absolute Values of Easterly Declination, without regard to the Signs of Numbers in the preceding Table.*

Months, 1857.	Monthly Sum.	Mean Diurnal Inequality.	FOR SEASONS.
January	0°12′299	0°0·512	Mean of { Jan. Feb. Mar. / Oct. Nov. Dec. } or Winter.... 0°0′429
February	13·086	0·545	
March	6·650	0·277	
April	5·439	0·227	
May.....	12·972	0·541	Mean of { Apr. May, June, / July, Aug. Sept. } or Summer .. 0·0·450
June	9·748	0·406	
July.....	10·540	0·439	Mean of the year.... 0·0·438
August.....	11·960	0·498	
September	14·065	0·586	Greatest monthly mean, in September..... 0·586
October	3·557	0·148	Least monthly mean, in October..... 0·148
November	13·273	0·553	
December	12·669	0·528	Difference..... 0·438

It appears from this Table that the movements of the Declinometer were more regular in Summer than in Winter.

TABLE XX.—*Showing, for the Year* 1857, *the Mean Diurnal Inequality for each Hour of Göttingen Mean Time, and the Hourly Sums, without regard to the Signs of Numbers in Table XVIII.*

Göttingen Mean Time.	Bombay Civil Time.	Monthly Sums.	Mean Diurnal Inequality.	FOR DAY AND NIGHT.
	H. M.			
Noon.	4 12 P. M.	0°2′585	0°0′215	
1	5 12 „	1·509	0.126	
2	6 12 „	1·842	0·153	
3	7 12 „	2·858	0·238	Mean of { 2, 3, 4, 5, 6, 7, / 8, 9, 10, 11, 12, 13, } or Night 0°0′235
4	8 12 „	3·072	0·256	
5	9 12 „	1·920	0·160	
6	10 12 „	1·554	0·129	
7	11 12 „	1·458	0·122	
8	0 12 A. M.	1·407	0·117	
9	1 12 „	1·900	0·158	
10	2 12 „	3·039	0·253	Mean of { 14, 15, 16, 17, 18, 19, / 20, 21, 22, 23, 0, 1, } or Day 0·0′641
11	3 12 „	3·749	0·312	
12	4 12 „	4·505	0·375	Mean..... 0·03489
13	5 12 „	6·594	0·550	
14	6 12 „	11·963	0·997	
15	7 12 „	14·812	1·234	
16	8 12 „	10·176	0·848	GREATEST AND LEAST INEQUALITY.
17	9 12 „	2·217	0·185	
18	10 12 „	5·558	0·463	G.M.T. B.C.T.
19	11 12 „	10·140	0·845	Greatest inequality at.... 15 7 A. M.
20	0 12 P. M.	10·958	0·913	Least inequality at..... 8 Midnight.
21	1 12 „	10·927	0·911	
22	2 12 „	7·598	0·633	
23	3 12 „	3·917	0·326	

This Table shows that the values of declination were more irregular in the morning and afternoon than those of any other portion of the day.

HORIZONTAL FORCE.

DURING the year 1857 the changes of the Horizontal Force of the Earth were determined by two Horizontal Force Magnetometers, one a large and the other a small instrument; they are both described in the Introduction.

Horizontal Force is determined from the Scale Readings of Large Horizontal Force Magnetometer, which were, of course, corrected for the effects of the Temperature of attached Thermometer, and were further corrected for the changes in the actual Horizontal Intensity found from Deflection Observations.

The assumed formula for correcting the Horizontal Intensity for the effects of circumambient air is $c = 0{\cdot}0016\ (t^\circ - 80^\circ)$, in which t° denotes the temperature of circumambient air.

TABLE XXI.—*Mean Value of Absolute Horizontal Intensity, as obtained from the Scale Readings of Large Horizontal Force Magnetometer, for each Day of Göttingen Mean Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.
1	8·0210	8·0220		8·0286	8·0324	8·0297	8·0277		8·0229	8·0194	8·0249	8·0397
2	·0208	·0257	8·0307	·0285		·0289	·0282	8·0247	·0249	·0220	·0298	·0262
3		·0245	·0310	·0313	·0325	·0300	·0275	·0193	*·0084		·0258	·0287
4	·0174	·0225	·0281		·0316	·0280			*·0095	·0274	·0211	·0334
5	·0164	·0233	·0249	·0289	·0327	·0294	·0294	·0245		·0253	·0238	
6	·0186	·0247	·0270	·0269	·0301		·0295	·0257	·0202	·0297	·0281	·0295
7	·0183			·0277	*·0094	·0316	·0309	·0211	·0156	·0242		·0309
8	·0182	·0190	·0249	·0298	·0124	·0324	·0201		·0187	·0276	·0281	·0333
9	·0230	·0211	·0263			·0350	·0231	·0218	·0186	·0280	·0152	·0329
10		·0198		·0281	·0192	·0362	·0249	·0222	·0150		·0203	·0283
11	·0220	·0236	·0227		·0161	·0355		·0235	·0186	·0284	·0181	·0302
12	·0221	·0253	·0280	·0148	·0207	·0352	·0220	·0206		·0286	·0194	
13	·0190	·0246	·0231	·0208	·0216		·0248	·0215	·0232	·0300	·0242	·0351
14	·0205			·0248	·0239	·0361	·0245		·0191	·0316		·0331
15	·0240	·0253	·0260	·0273	·0263	·0307	·0259		·0179	·0239	·0286	·0328
16	·0162	·0223	·0291	·0288		·0291	·0255	·0209	·0192		·0258	* ·0233
17		·0262	·0249	·0271	·0296	·0273	·0234	·0200	·0201		·0144	*7·9748
18	·0170	·0260	·0244		·0309	·0248		·0228	·0194	·0201	·0129	*8·0085
19	·0175	·0258	·0259	·0286	·0298	·0287	·0272	·0211		·0208	·0251	
20	·0214	·0269	·0274	·0307	·0304		·0279	·0210	·0250	·0215	·0286	·0156
21	·0213			·0308	·0284	·0300	·0278	·0218	*·0090	·0229		·0194
22	·0213	·0288	·0269	·0311	·0286	·0195	·0302		·0157	·0258	·0296	·0207
23	·0194	·0275	·0289	·0312		·0256	·0243	·0194	·0179	·0230	·0225	·0161
24		·0297	·0294	·0309	·0314	·0260	·0235	·0236	·0215		·0215	
25	·0191	·0305	·0296		·0296	·0294		·0260	·0226	·0246	·0244	·0231
26	·0169	·0281	·0291	·0320	·0320	·0311	·0201	·0266		·0259	·0266	
27	·0181	·0244	·0308	·0284	·0297		·0200	·0269	·0254	·0291	·0239	* ·0173
28	·0202	·0260		·0288	·0301	·0189	·0205	·0226	·0277	·0309	·0252	* ·0089
29	·0213		·0279	·0279	·0330	·0250	·0194	·0242	·0276	·0223		·0142
30	·0223		·0277	·0306	·0272	·0217	·0232		·0194	·0215	·0321	·0318
31			·0327				·0211	·0253				·0317

* This sign denotes abnormal days, or days on which Magnetic disturbances occurred.

TABLE XXII.—*Mean Temperature of Air within the Box of Horizontal Force Magnetometer, for each Day of Göttingen Mean Time.*

Date, 1857.	January.	February	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	76°2	77°0		86°3	87°8	87°8	84°0		80°6	82°7	81°9	77°8
2	78·4	79·3	84°0	86·5		85·3	84·4	80°5	81·2	82·5	81·6	77·0
3		80·5	83·7	85·5	88·0	85·9	84·8	80·9	81·2		81·1	77·6
4	77·6	76·6	82·5		88·1	86·7			81·5	81·3	81·2	79·0
5	76·1	76·5	81·8	84·8	87·9	86·9	84·8	80·2		82·1	82·3	
6	75·0	77·7	81·5	84·6	86·8		84·6	80·5	81·4	82·5	83·6	78·0
7	76·9			83·8	86·6	87·9	84·9	81·1	81·2	82·8		77·1
8	77·8	77·8	82·0	83·4	87·0	87·3	85·0		80·4	83·1	84·5	76·8
9	78·5	77·8	81·7	••		87·4	85·5	80·4	79·9	83·3	83·3	76·7
10		78·9		82·6	88·0	87·6	85·7	80·2	80·4		82·5	76·5
11	80·0	80·2	81·9		87·7	85·9		80·6	81·1	83·1	81·7	76·5
12	79·8	81·0	82·9	83·6	87·7	86·6	86·2	81·4		82·8	81·4	
13	77·3	80·6	82·1	84·1	87·3		85·9	81·8	81·2	81·5	81·7	81·2
14	76·3			84·5	87·0	86·4	85·6		81·3	82·0		81·3
15	78·4	79·7	81·9	84·1	86·8	85·9	85·6		82·2	82·8	81·4	78·6
16	78·6	80·4	83·0	84·4		85·6	85·3	80·6	81·0		81·9	76·8
17		81·3	83·8	84·0	87·3	84·0	85·7	80·8	80·2		81·7	76·2
18	78·4	81·6	85·9		87·9	82·7		80·4	79·4	84·0	80·7	76·1
19	79·2	83·0	85·8	82·1	88·5	83·9	85·2	80·0		83·2	80·2	
20	81·0	82·6	85·6	81·3	88·0		85·0	79·9	79·9	83·2	79·7	77·5
21	81·7			83·6	87·8	86·0	84·5	80·3	79·9	84·1		78·0
22	80·7	81·2	85·2	84·6	88·0	83·2	84·2		80·9	83·6	78·9	77·2
23	78·9	81·6	85·4	84·8		82·4	84·8	81·6	81·3	83·3	79·0	77·1
24		83·2	85·2	84·5	88·3	82·4	83·8	81·6	80·7		78·9	
25	78·5	82·8	85·0		87·4	83·6		82·2	81·0	82·9	78·8	77·2
26	75·9	82·3	83·9	85·4	88·4	83·8	83·3	82·2		83·1	78·4	
27	73·7	82·9	84·1	86·2	87·1		80·7	82·2	81·6	83·1	78·5	77·7
28	74·3	82·9		86·0	87·9	84·3	80·3	82·2	81·9	82·9	78·3	76·4
29	75·2		85·5	86·3	88·7	84·3	79·7	82·2	82·1	82·5		77·0
30	75·7		85·5	87·2	88·5	84·2	81·1		82·4	82·2	78·3	77·1
31			85·5				79·8	82·1				77·4

TABLE XXIII.—*Showing the Number of Instances in which the Difference between the Mean Daily Values of two Consecutive Days was within certain Limits.*

Limits of Differences. — Difference between the Mean Daily Values of Horizontal Force.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole Number of Cases in the Year.
Greater than 0·0001 and less than 0·0010	9	7	7	8	5	6	10	9	4	6		3	74
„ 0·0010 „ 0·0020	6	8	4	5	6	7	5	5	4	6	5	4	65
„ 0·0020 „ 0·0030	3	4	6	7	8	5	5	4	5	4	6	3	60
„ 0·0030 „ 0·0040	3	5	3	2	3	4	4	1	4	3	2	2	36
„ 0·0040 „ 0·0050	2		3	2	1			3	3	1	6	5	26
„ 0·0050 „ 0·0060		1	2		1		1	2	1	2	1	2	13
„ 0·0060 „ 0·0070				2	1	2	1		1		1		8
„ 0·0070 „ 0·0080	1								1	1	1	2	6
„ 0·0080 „ 0·0090										1		1	2
„ 0·0090 „ 0·0100												1	1
„ 0·0100 „ 0·0200						2	1		3		3	1	10
„ 0·0200 „ 0·0300					1							1	2
„ 0·0300 „ 0·0500												1	1

It appears from this Table that there were about—

			Eng. Un.		Eng. Un.
74	instances in which the difference was	greater than	0·0001	and less than	0·0010
187	„	„	0·0010	„	0·0050
50	„	„	0·0050	„	0·0100
10	„	„	0·1000	„	0·0200
3	„	„	0·0200	„	0·0500

In no case the difference of the Mean Daily Values of two consecutive days was greater than 0·0500 English Units.

TABLE XXIV.—*Showing the Greatest and Least Difference of the two Mean Values of Consecutive Days.*

Months, 1857.	Difference.		Difference without regard to the Signs.	The Time at which the Difference was	
	Greatest.	Least.		Greatest.	Least.
	En. Un.	En. Un.	En. Un.	Between	Between
January	− 0·0078	0·0000	0·0078	15 & 15	21 and 23
February	− 0·0057	± 0·0002	·0055	6 & 8	17 and 19
March	+ 0·0053	± 0·0002	·0051	11 & 12	2 instances.
April	+ 0·0060	± 0·0001	·0059	12 & 14	3 instances.
May	− 0·0207	+ 0·0001	·0206	6 & 7	1 and 3
June	− 0·0122	− 0·0003	·0119	26 & 28	11 and 12
July	− 0·0108	± 0·0001	·0107	7 & 8	3 instances.
August	− 0·0054	− 0·0001	·0053	2 & 3	19 and 20
September	− 0·0165	− 0·0001	·0164	2 & 3	2 instances.
October	− 0·0086	0·0000	·0086	28 & 29	30 and 1
November	− 0·0129	0·0000	·0129	7 & 9	6 and 8
December	− 0·0489	− 0·0009	·0488	17 & 18	30 and 31

It appears from this Table that there was only a single instance in which the difference of the two consecutive days was 0·0489 English Units, but in no other case it was greater than 0·03 English Units. The greatest difference of the daily means occurred between the 17th and 18th December.

TABLE XXV.—*Showing the Greatest and Least Mean Daily Values of Horizontal Force in each Month of the Year* 1857.

Months, 1857.	Mean Daily Value of Horizontal Force.		Difference.	The Day on which the Mean Daily Value of Horizontal Force was	
	Greatest.	Least.		Greatest.	Least.
	En. Un.	En. Un.	En. Un.	D.	D.
January	8·0240	8·0162	0·0078	15	16
February	·0305	·0190	·0115	25	8
March	·0327	·0227	·0100	31	11
April	·0320	·0148	·0172	26	12
May	·0330	8·0094	·0236	29	7
June	·0362	8·0189	·0173	10	28
July	·0309	·0194	·0115	7	29
August	·0269	·0193	·0076	27	3
September	·0277	·0084	·0193	28	3
October	·0316	·0194	·0122	14	1
November	·0321	·0129	·0192	30	18
December	·0351	7·9748	·0603	13	17

It appears from this Table that the Horizontal Force Magnet was subject to less variation in its daily movements in the months of January and August; it was subject to greater variations in the month of December than in any other month. The extreme range between the mean daily positions of Horizontal Force Magnet was 0·0614 English Units. The mean difference of the mean daily values of Horizontal Force in each month was 0·0181 English Units, being 0·0033 greater than the difference of last year.

TABLE XXVI.—*Showing, for the Year* 1857, *the Hours of Göttingen Time at which the Value of Absolute Horizontal Force, in Simple Hourly Observations of Horizontal Force Magnetometer in each Month, was at its Maximum and Minimum.*

Months, 1857.	Horizontal Force in Simple Hourly Observations.		Extreme Range.	The Time at which the Declination was at its	
	Maximum.	Minimum.		Maximum.	Minimum.
	En. Un.	En. Un.	En. Un.	D. H.	D. H.
January	8·0368	8·0066	0·0302	1 & 3	16 & 12
February	·0460	·0043	·0417	25 & 20	16 & 3
March	·0546	·0117	·0429	31 & 19	11 & 6
April	·0514	7·9956	·0558	8 & 19	12 & 2
May	·0513	·9981	·0532	7 & 1	7 & 14
June	·0528	8·0037	·0491	11 & 18	22 & 5
July	·0488	·0088	·0400	7 & 18	8 & 5
August	·0423	·0077	·0346	27 & 20	23 & 4
September	·0481	7·9703	·0778	29 & 19	3 & 20
October	·0473	8·0075	·0398	14 & 20	20 & 9
November	·0474	7·9932	·0542	2 & 19	18 & 3
December	·0541	7·9312	·0229	4 & 19	17 & 1

The time of the greatest intensity occurs between 18h. and 20h., and that of the minimum happens generally after sunset. The range of Horizontal Intensity was higher about the beginning and close of the South-West Monsoon. The greatest range of the year was 0·1234, being the difference of the values of 31st March and 17th December in simple Hourly Observations.

TABLE XXVII.—*Showing, for each Month, the Mean Value of Absolute Horizontal Intensity, and its Periodic Changes from the Mean of the Year.*

Months, 1857.	Mean Value of Absolute Horizontal Intensity.	Difference from the Mean of the Year.
	En. Un.	En. Un.
January	8·0197	− ·0055
February	·0249	− ·0003
March	·0275	·0023
April	·0282	·0030
May	·0276	·0024
June	·0289	·0037
July	·0249	− ·0003
August	·0228	− ·0024
September	·0207	− ·0045
October	·0254	·0002
November	·0238	− ·0014
December	·0275	·0023

FOR SEASONS.

	En. Un.
Mean of { Jan. Feb. March, Oct. Nov. Dec. } or Winter ..	8·0248
Mean of { April, May, June, July, Aug. Sept. } or Summer..	8·0255
Mean of the year	8·0252
Greatest monthly mean, in June	8·0289
Least monthly mean, in January	8·0197
Difference....	0·0092

TABLE XXVIII.—*Showing, for each Month, the Mean Temperature of Air within the Box of Horizontal Force, and its Periodic Changes from the Mean of the Year.*

Months, 1857.	Mean Temperature of the Horizontal Force Thermometer.	Difference from the Mean of the Year.	FOR SEASONS.
January	77°7	− 4°6	
February	80·4	− 1·9	Mean of { Jan. Feb. March / Oct. Nov. Dec. } or Winter.. 80°5
March	83·8	1·5	
April	84·6	2·3	Mean of { Apr. May, June, / July, Aug. Sept. } or Summer. 84·0
May	87·8	5·5	
June	85·3	3·0	
July	84·1	1·8	Mean of the year..... 82·3
August	81·1	− 1·2	
September	81·0	− 1·3	Greatest monthly mean, in May..... 87·8
October	82·8	0·5	Least monthly mean, in Dec., Jan. .... 77·7
November	80·9	− 1·4	
December	77·7	− 4·6	Difference..... 10·1

TABLE XXIX.—*Daily Ranges of Horizontal Force for each Day of Göttingen Mean Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.
1	0·0232	0·0205		0·0207	0·0183	0·0172	0·0207		0·0203	0·0223	0·0251	0·0184
2	·0163	·0196	0·0219	·0213		·0258	·0211	0·0178	·0235	·0201	·0259	·0249
3		·0149	·0184	·0226	·0180	·0114	·0192	·0135	·0431		·0253	·0209
4	·0081	·0186	·0192		·0162	·0170			·0226	·0188	·0259	·0305
5	·0162	·0192	·0211	·0213	·0129	·0243	·0212	·0090		·0246	·0278	
6	·0285	·0198	·0188	·0213	·0291		·0192	·0193	·0285	·0250	·0335	·0194
7	·0182			·0204	·0625	·0163	·0291	·0228	·0272	·0329		·0253
8	·0238	·0172	·0235	·0303	·0439	·0185	·0258		·0199	·0224	·0171	·0207
9	·0196	·0241	·0243			·0229	·0207	·0149	·0148	·0214	·0343	·0223
10		·0285		·0231	·0182	·0201	·0153	·0195	·0241		·0238	·0254
11	·0154	·0223	·0278		·0205	·0250		·0170	·0135	·0201	·0401	·0281
12	·0241	·0262	·0194	·0388	·0197	·0238	·0172	·0136		·0204	·0239	
13	·0211	·0217	·0188	·0213	·0211		·0195	·0205	·0159	·0224	·0193	·0186
14	·0204			·0247	·0230	·0186	·0183		·0126	·0225		·0171
15	·0205	·0151	·0187	·0221	·0211	·0143	·0222		·0178	·0283	·0242	·0219
16	·0176	·0338	·0202	·0256		·0127	·0223	·0172	·0103		·0186	·0665
17		·0262	·0240	·0193	·0226	·0163	·0127	·0230	·0110		·0199	·0778
18	·0251	·0254	·0219		·0161	·0111		·0123	·0179	·0217	·0414	·0203
19	·0194	·0213	·0249	·0249	·0235	·0264	·0178	·0181		·0251	·0237	
20	·0164	·0152	·0200	·0274	·0212		·0207	·0160	·0254	·0322	·0209	·0257
21	·0168			·0227	·0206	·0204	·0194	·0090	·0361	·0176		·0248
22	·0192	·0239	·0182	·0151	·0200	·0310	·0252		·0210	·0245	·0280	·0113
23	·0136	·0272	·0321	·0137		·0244	·0197	·0258	·0193	·0089	·0308	·0201
24		·0201	·0268	·0154	·0214	·0214	·0137	·0259	·0198		·0217	
25	·0213	·0242	·0217		·0281	·0231		·0191	·0169	·0256	·0213	·0181
26	·0193	·0270	·0274	·0250	·0180	·0163	·0134	·0225		·0255	·0169	
27	·0228	·0240	·0278	·0260	·0166		·0144	·0227	·0234	·0189	·0036	·0286
28	·0211	·0239		·0231	·0193	·0209	·0114	·0188	·0235	·0226	·0200	·0410
29	·0221		·0125	·0181	·0257	·0215	·0164	·0195	·0278	·0246		·0283
30	·0225		·0289	·0182	·0231	·0195	·0150		·0178	·0264	·0253	·0232
31			·0323				·0215	·0213				·0322
Mean Range.	0·0194	0·0224	0·0224	0·0225	0·0236	0·0200	0·0190	0·0183	0·0213	0·0230	0·0242	0·0274

TABLE XXX.—*Showing the Number of Instances in which the Daily Range of Horizontal Force was within certain Limits.*

Daily Range of Horizontal Force Magnetometer in Absolute Measure.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole Number of Cases in the Year.
En. Un.													
Greater than 0·003 and less than 0·008											1		1
„ „ 0·008 „ 0·010	1							2		1			4
„ „ 0·010 „ 0·012						2	1		2			1	6
„ „ 0·012 „ 0·014	1		1	1	1	1	3	3	2				13
„ „ 0·014 „ 0·016	1	3		2		1	3	1	2				13
„ „ 0·016 „ 0·018	5	1			3	5	3	4	4	1	2	1	29
„ „ 0·018 „ 0·020	6	4	7	3	6	3	6	6	3	2	3	3	52
„ „ 0·020 „ 0·022	5	4	6	6	7	5	6	2	2	5	4	6	58
„ „ 0·022 „ 0·024	5	3	1	5	4	3	2	4	4	5	4	2	42
„ „ 0·024 „ 0·026	2	4	3	4	1	4	2	2	2	7	6	5	42
„ „ 0·026 „ 0·028		4	4	2		1			2	1	1		15
„ „ 0·028 „ 0·030		1	1		2		1		1	1	1	3	11
„ „ 0·030 „ 0·040		1	2	2		1			1	2	2	2	13
„ „ 0·040 „ 0·050					1				1		2	1	5
„ „ 0·050 „ 0·080					1							2	3

It appears from this table that there were only five instances in which the range of Horizontal Force was greater than 0·003 and less than 0·010 English Units.

There were 32 instances in which the daily range was greater than 0·010 and less than 0·016 En. Un.

81 „ „ „ „ 0·016 „ 0·020 „

142 „ „ „ „ 0·020 „ 0·026 „

26 „ „ „ „ 0·026 „ 0·030 „

21 „ „ „ „ 0·030 „ 0·080 „

In no case the range was greater than 0·080 English Units.

TABLE XXXI.—*Showing the Greatest and Least Daily Ranges of Horizontal Force in each Month of the Year* 1857.

Months, 1857.	Daily Range of Horizontal Force.		Difference.	The Day on which the Range of Horizontal Force was	
	Greatest.	Least.		Greatest.	Least.
	En. Un.	En. Un.	En. Un.	D	D
January	0·0251	0.0081	·0170	18	4
February	·0338	·0149	·0189	16	3
March	·0323	·0125	·0198	31	29
April	·0388	·0137	·0251	12	23
May	·0625	·0129	·0496	7	5
June	·0310	·0111	·0199	22	18
July	·0291	·0114	·0177	7	28
August	·0259	·0090	·0169	24	5 & 21
September	·0431	·0103	·0328	3	16
October	·0329	·0089	·0240	7	23
November	·0414	·0036	·0378	18	27
December	·0778	·0113	·0665	17	22

This table shows that the times of greatest and least ranges in each month were not constant. The extreme difference between the greatest and least ranges is 0·0742 English Units, which was about 0·04 higher than the difference of the last year.

TABLE XXXII.—*Mean Value of Absolute Horizontal Intensity, corrected for Instrumental Errors, in each Month, for each Hour of Göttingen Mean and Bombay Civil Time.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	H. M.
Noon.	8·0220	8·0281	8·0295	8·0299	8·0304	8·0284	8·0259	8·0237	8·0218	8·0269	8·0248	8·0298	4 12 P.M.
1	·0199	·0246	·0269	·0262	·0270	·0262	·0238	·0220	·0203	·0243	·0223	·0271	5 12 „
2	·0172	·0210	·0247	·0241	·0251	·0253	·0227	·0195	·0187	·0227	·0195	·0245	6 12 „
3	·0159	·0190	·0231	·0229	·0228	·0236	·0204	·0181	·0166	·0203	·0180	·0225	7 12 „
4	·0152	·0185	·0232	·0231	·0217	·0234	·0193	·0172	·0169	·0191	·0180	·0216	8 12 „
5	·0143	·0187	·0219	·0231	·0217	·0215	·0198	·0172	·0157	·0183	·0173	·0203	9 12 „
6	·0138	·0190	·0223	·0229	·0226	·0234	·0201	·0177	·0158	·0189	·0164	·0201	10 12 „
7	·0144	·0195	·0213	·0231	·0225	·0244	·0207	·0183	·0163	·0196	·0167	·0203	11 12 „
8	·0152	·0195	·0220	·0239	·0220	·0247	·0206	·0188	·0167	·0202	·0193	·0221	Midnight
9	·0153	·0200	·0222	·0224	·0227	·0248	·0204	·0190	·0176	·0201	·0192	·0221	1 12 A.M.
10	·0154	·0206	·0226	·0226	·0226	·0248	·0204	·0187	·0177	·0216	·0194	·0230	2 12 „
11	·0153	·0201	·0221	·0233	·0235	·0248	·0203	·0193	·0180	·0213	·0197	·0229	3 12 „
12	·0152	·0206	·0223	·0230	·0237	·0246	·0203	·0187	·0180	·0216	·0200	·0231	4 12 „
13	·0158	·0210	·0223	·0231	·0239	·0250	·0211	·0196	·0182	·0213	·0206	·0231	5 12 „
14	·0163	·0234	·0237	·0232	·0237	·0260	·0221	·0198	·0181	·0217	·0212	·0243	6 12 „
15	·0169	·0297	·0241	·0249	·0250	·0279	·0239	·0208	·0167	·0222	·0221	·0243	7 12 „
16	·0194	·0341	·0284	·0300	·0288	·0314	·0272	·0231	·0195	·0269	·0265	·0289	8 12 „
17	·0236	·0297	·0337	·0362	·0337	·0352	·0303	·0279	·0247	·0325	·0310	·0334	9 12 „
18	·0282	·0341	·0390	·0403	·0367	·0391	·0340	·0317	·0295	·0361	·0348	·0379	10 12 „
19	·0306	·0371	·0408	·0414	·0381	·0403	·0355	·0333	·0313	·0387	·0366	·0404	11 12 „
20	·0304	·0382	·0406	·0404	·0386	·0404	·0352	·0341	·0316	·0382	·0359	·0405	Noon.
21	·0291	·0369	·0389	·0379	·0377	·0387	·0370	·0330	·0286	·0357	·0329	·0385	1 12 P.M.
22	·0274	·0347	·0362	·0354	·0355	·0353	·0313	·0303	·0269	·0324	·0306	·0366	2 12 „
23	·0253	·0221	·0326	·0329	·0325	·0321	·0287	·0275	·0241	·0299	·0276	·0337	3 12 „

TABLE XXXIII.—*Mean Temperature of Air within the Box of the Large Horizontal Force Magnetometer in each Month, for each Hour of Göttingen Mean and Bombay Civil Time.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
													H. M.
Noon.	80·5	84·0	86·9	87·0	90·2	87·0	85·8	82·1	82·5	85·2	83·9	81·4	4 12 P.M.
1	79·6	83·0	86·2	86·4	89·6	86·5	85·4	81·8	82·1	84·4	82·8	80·2	5 12 „
2	78·8	81·9	85·3	85·5	88·8	86·1	84·9	81·2	81·5	83·7	81·9	79·3	6 12 „
3	78·4	81·3	84·8	85·0	88·1	85·6	84·4	81·0	81·1	83·4	81·4	78·7	7 12 „
4	78·0	80·8	84·4	84·7	87·6	85·4	84·1	80·8	80·9	82·9	81·2	78·2	8 12 „
5	77·6	80·3	83·9	84·4	87·3	85·0	83·9	80·7	80·8	82·6	80·7	77·6	9 12 „
6	77·2	79·8	83·5	84·1	87·1	84·8	83·8	80·6	80·6	82·3	80·1	76·9	10 12 „
7	76·9	79·5	83·2	83·9	86·9	84·6	83·6	80·5	80·4	82·0	79·7	76·3	11 12 „
8	76·8	79·1	82·8	83·7	86·7	84·5	83·5	80·4	80·3	81·7	79·5	76·0	Midnight.
9	76·5	78·9	82·5	83·3	86·5	84·4	83·2	80·4	80·1	81·4	79·3	75·7	1 12 A.M.
10	76·1	78·6	82·2	83·0	86·3	84·3	83·2	80·3	80·0	81·3	79·0	75·5	2 12 „
11	75·9	78·2	82·0	82·7	86·2	84·1	83·0	80·2	79·8	81·1	78·7	75·2	3 12 „
12	75·5	77·9	81·6	82·5	86·0	83·9	82·9	80·1	79·7	80·9	78·4	75·1	4 12 „
13	75·3	77·5	81·2	82·3	85·9	83·9	82·7	80·1	79·7	80·6	78·2	74·8	5 12 „
14	75·1	77·3	81·0	82·1	85·8	83·8	82·8	80·2	79·7	80·4	77·8	74·6	6 12 „
15	74·9	77·1	81·0	82·4	86·1	84·1	82·9	80·2	79·8	80·5	77·8	74·6	7 12 „
16	75·4	77·6	81·5	83·2	86·7	84·5	83·2	80·4	80·2	81·1	78·6	75·5	8 12 „
17	76·5	78·8	82·6	84·2	87·5	85·0	83·7	80·9	80·9	82·2	79·9	76·6	9 12 „
18	77·9	80·3	83·9	85·3	88·2	85·7	84·3	81·4	81·5	83·3	81·3	78·0	10 12 „
19	79·1	81·8	85·1	86·1	88·9	86·3	84·9	81·9	82·1	84·4	82·6	79·3	11 12 „
20	80·0	82·9	86·0	86·6	89·6	86·8	85·2	82·4	82·6	85·0	83·5	80·5	Noon.
21	80·7	83·8	86·7	87·1	90·1	87·1	85·5	82·6	82·7	85·5	84·2	81·4	1 12 P.M.
22	81·1	84·3	87·1	87·3	90·3	87·2	85·7	82·6	82·9	85·7	84·6	82·0	2 12 „
23	81·1	84·5	87·1	87·3	90·3	87·0	85·7	82·6	82·8	85·8	84·5	82·1	3 12 „

TABLE XXXIV.—*Showing, for the Year* 1857, *the Hours of Göttingen Mean Time, at which the Mean Value of Horizontal Force, corrected in each Month, was at its Maxima and Minima.*

Months, 1857.	The Mean Hourly Value of Horizontal Force corrected.				Mean Diurnal Range.	The Time at which the Mean Hourly Value of Horizontal Force was at its			
	Minimum.	Maximum.	Minimum.	Maximum.		Minimum.	Maximum.	Minimum.	Maximum.
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	H.	H.	H.	H.
January	8·0138	8·0154	8·0152	8·0306	0·0168	6	10	12	19
February	·0185	·0206	·0201	·0382	·0197	4	10	11	20
March	·0213	·0226	·0221	·0408	·0195	7	10	11	19
April	·0229	·0239	·0224	·0414	·0190	3 or 6	8	9	19
May	·0217	·0226	·0220	·0386	·0169	4 or 5	6	8	20
June	·0215	·0248	·0246	·0404	·0189	5	11	12	20
July	·0193	·0207	·0203	·0370	·0177	4	7	12	21
August	·0172	·0193	·0187	·0341	·0169	5	11	12	20
September	·0157	·0182	·0167	·0316	·0159	5	13	15	20
October	·0183	·0216	·0213	·0387	·0204	5	12	13	19
November	·0164			·0366	·0202	6			19
December	·0201			·0405	·0204	6			20
Mean of { Jan. Feb. March / Oct. Nov. Dec. } or Winter					0·0195	6	10	11	19
Mean of { Apr. May, June, / July Aug. Sept. } or Summer					0·0175	5	10	11	20

It appears from this table that the Horizontal Force Magnet during this year reached its extreme position at about 19 or 20h., Göttingen time. The times of Maxima and Minima vary according to the seasons of the year. The movements of this Magnet consist generally of two Maxima and two Minima, but in some months more than two Maxima and Minima were apparent; in November and December only one Maximum and Minimum were experienced.

TABLE XXXV.—*Showing, for the Year* 1857, *the Hours of Göttingen Time, at which the Mean Temperature of Air within the Box of Horizontal Force, in each Month, was at its Maximum and Minimum.*

Months, 1857.	The Mean Hourly Temperature of Air within the Box of Horizontal Force.		Mean Diurnal Range.	The Time at which the Mean Hourly Temperature of Air within the box of Horizontal Force was at its	
	Maximum.	Minimum.		Maximum.	Minimum.
January	81°1	74°9	6°2	22	15
February	84·5	77·1	7·4	23	15
March	87·1	81·0	6·1	23	14
April	87·3	82·1	5·2	23	14
May	90·3	85·8	4·5	22	14
June	87·2	83·8	3·4	22	14
July	85·7	82·7	3·0	23	13
August	82·6	80·1	2·5	22	12
September	82·9	79·7	3·2	22	13
October	85·8	80·4	5·4	23	14
November	84·6	77·8	6·8	22	15
December	82·1	74·6	7·5	23	14
Mean of { Jan. Feb. Mar. / Nov. Dec. Oct. } or Winter			6·9	23	14 or 15
Mean of { Apr. May, June, / July, Aug. Sept. } or Summer			3·5	22	14 or 13

TABLE XXXVI.—*Hourly Changes of Horizontal Force, as obtained by taking the Differences of the Mean Hourly Values of Consecutive Hours.*

Time.	MONTHS, 1857.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Between	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.
Noon and 1	-0·0021	-0·0035	-0·0026	-0·0037	-0·0034	-0·0022	-0·0021	-0·0017	-0·0005	-0·0026	-0·0025	-0·0027
1 and 2	- ·0027	- ·0034	- ·0022	- ·0021	·0019	- ·0009	- ·0011	- ·0025	- ·0016	- ·0016	- ·0028	- ·0026
2 and 3	- ·0013	- ·0030	- ·0014	- ·0013	·0023	- ·0017	- ·0023	- ·0014	- ·0021	- ·0014	- ·0015	- ·0020
3 and 4	- ·0007	- ·0005	·0001	·0002	·0011	- ·0002	- ·0011	- ·0009	·0003	- ·0012	·0000	- ·0009
4 and 5	- ·0009	·0002	- ·0013	·0000	·0000	- ·0019	·0005	·0000	- ·0012	- ·0008	- ·0007	- ·0013
5 and 6	- ·0005	·0003	·0004	- ·0002	·0009	·0019	·0003	·0005	·0001	·0006	- ·0009	- ·0002
6 and 7	·0006	·0005	- ·0010	·0002	- ·0001	·0010	·0006	·0006	·0005	·0007	·0003	·0002
7 and 8	·0008	·0000	·0007	·0008	- ·0005	·0003	- ·0001	·0005	·0004	·0006	·0026	·0018
8 and 9	·0001	·0005	·0002	- ·0011	·0007	·0001	·0002	·0002	·0009	- ·0001	- ·0001	·0000
9 and 10	·0001	·0006	·0004	·0002	- ·0001	·0000	·0000	- ·0003	·0001	·0015	·0002	·0009
10 and 11	- ·0001	- ·0005	- ·0005	·0007	·0009	·0000	- ·0001	·0006	·0003	- ·0003	·0003	- ·0001
11 and 12	- ·0001	·0005	·0002	- ·0003	·0002	- ·0002	·0000	- ·0006	·0000	·0003	·0003	·0002
12 and 13	·0006	- ·0001	·0000	·0001	·0002	·0004	·0008	·0009	·0002	- ·0003	·0006	·0000
13 and 14	·0010	·0001	·0016	·0001	- ·0002	·0010	·0010	·0002	- ·0001	·0004	·0006	·0012
14 and 15	·0001	·0004	·0004	·0017	- ·0037	·0019	·0018	·0010	- ·0014	·0005	·0009	·0009
15 and 16	·0025	·0024	·0043	·0051	·0038	·0035	·0033	·0023	·0028	·0047	·0044	·0046
16 and 17	·0042	·0063	·0053	·0062	·0049	·0038	·0031	·0048	·0052	·0056	·0045	·0045
17 and 18	·0046	·0044	·0053	·0041	·0030	·0039	·0037	·0038	·0048	·0036	·0038	·0045
18 and 19	·0024	·0030	·0018	·0011	·0014	·0012	·0015	·0016	·0018	·0026	·0018	·0025
19 and 20	- ·0002	·0011	- ·0002	- ·0010	·0005	·0001	- ·0002	·0008	·0003	- ·0005	- ·0007	·0001
20 and 21	- ·0013	- ·0013	- ·0017	- ·0025	- ·0009	- ·0017	- ·0017	- ·0011	- ·0030	- ·0025	- ·0030	- ·0020
21 and 22	- ·0017	- ·0022	- ·0027	- ·0025	- ·0022	- ·0034	- ·0057	- ·0027	- ·0017	- ·0033	- ·0023	- ·0019
22 and 23	- ·0021	- ·0026	- ·0036	- ·0025	- ·0030	- ·0032	- ·0026	- ·0026	- ·0028	- ·0025	- ·0030	- ·0029
23 and Noon	- ·0030	- ·0040	- ·0031	- ·0030	- ·0021	- ·0037	- ·0028	- ·0038	- ·0023	- ·0030	- ·0028	- ·0039

TABLE XXXVII.—*Showing the Means of the Numbers in the preceding Table, without regard to their Signs.*

Time.	Mean Change for Winter.	Character of Changes in Winter.	Mean Change for Summer.	Character of Change in Summer.
Between	En. Un.		En. Un.	
Noon and 1	0·0027	A moderate fall generally.	0·0023	A moderate fall generally.
1 and 2	·0025	,, ,,	·0017	Fall, except in May.
2 and 3	·0018	,, ,,	·0018	,, ,,
3 and 4	·0006	Fall, except in March and November.	·0006	Unsettled in its movements.
4 and 5	·0009	Fall, except in February.	·0000	,, ,,
5 and 6	·0005	Unsettled motion.	·0007	A rise, except in April.
6 and 7	·0005	Rise, except in March.	·0005	A rise, except in May.
7 and 8	·0011	A rise, generally.	·0004	A rise, except in May and July.
8 and 9	·0002	Rise, except in October and November.	·0005	A rise, except in April.
9 and 10	·0006	A general rise.	·0001	Unsettled in its movements.
10 and 11	·0003	Fall, except in November.	·0004	A rise, except in July.
11 and 12	·0003	Rise, except in January.	·0002	Unsettled motion.
12 and 13	·0003	Unsettled motion.	·0004	A rise, generally.
13 and 14	·0008	A general rise.	·0004	A rise, except in May and September.
14 and 15	·0004	,, ,,	·0028	,, ,, ,, ,,
15 and 16	·0038	An abrupt rise.	·0035	A rise generally observed.
16 and 17	·0051	A rise generally.	·0047	A general rise.
17 and 18	·0044	,, ,,	·0039	,, ,,
18 and 19	·0023	,, ,,	·0014	,, ,,
19 and 20	·0005	Fall, except in February and December.	·0005	A rise, except in April and August.
20 and 21	·0020	A fall generally observed.	·0018	A fall, generally observed.
21 and 22	·0023	,, ,, ,,	·0030	,, ,, ,,
22 and 23	·0028	,, ,, ,,	·0028	,, ,, ,,
23 and Noon	·0036	,, ,, ,,	·0029	,, ,, ,,

TABLE XXXVIII.—*Showing, for the Year* 1857, *the Mean Value of Absolute Horizontal Intensity, corrected for each Hour of Göttingen Mean Time; and also its Diurnal Changes from the Mean.*

Göttingen Mean Time.	Bombay Civil Time.	Mean Value of Absolute Horizontal Intensity.	Difference from the Mean of the Whole.
	H. M.	En. Un.	En. Un.
Noon	4 12 P. M.	8·0268	0·0016
1	5 12 „	·0242	−·0010
2	6 12 „	·0221	−·0031
3	7 12 „	·0203	−·0049
4	8 12 „	·0198	−·0054
5	9 12 „	·0191	−·0061
6	10 12 „	·0194	−·0058
7	11 12 „	·0198	−·0054
8	0 12 A. M.	·0204	−·0048
9	1 12 „	·0213	−·0039
10	2 12 „	·0208	−·0044
11	3 12 „	·0209	−·0043
12	4 12 „	·0209	−·0043
13	5 12 „	·0212	−·0040
14	6 12 „	·0218	−·0034
15	7 12 „	·0225	−·0027
16	8 12 „	·0261	·0009
17	9 12 „	·0310	·0058
18	10 12 „	·0351	·0099
19	11 12 „	·0370	·0118
20	0 12 P. M.	·0370	·0118
21	1 12 „	·0347	·0095
22	2 12 „	·0327	·0075
23	3 12 „	·0299	·0047

FOR DAY AND NIGHT.

	En. Un.
Mean of {2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,} or Night	8·0205
Mean of {14, 15, 16, 17, 18, 19, 20, 21, 22, 23, Noon.} or Day	8·0299
Mean.....	8·0252

TIMES OF MEAN MAXIMA AND MINIMA.

	G.M.T.	B.C.T.
A Minimum at about	5 or	9 P.M.
A Maximum at about	9 or	1 A.M.
A Minimum at about	10 or	2 A.M.
A Maximum at about	20 or	Noon.

It appears from this Table that 1h. and 16h. Göttingen time are the best hours for ascertaining the Mean Horizontal Intensity of any day, for at that time and in that position the Magnet seems to be most identical with the mean position of any month or day.

TABLE XXXIX.—*Showing, for the Year* 1857, *the Mean Temperature of Air within the Box of Large Horizontal Force Magnetometer, for each Hour of Göttingen Time; and also its Diurnal Changes from the Mean.*

Göttingen Mean Time.	Bombay Civil Time.	Mean Temperature of Air within the Box of Horizontal Force.	Difference from the Mean of the Whole.
	H. M.		
Noon.	4 12 P. M.	84°7	2°4
1	5 12 „	83·9	1·6
2	6 12 „	83·2	0·9
3	7 12 „	82·8	0·5
4	8 12 „	82·4	0·1
5	9 12 „	82·1	−0·2
6	10 12 „	81·8	−0·5
7	11 12 „	81·5	−0·8
8	0 12 A. M.	81·2	−1·1
9	1 12 „	81·2	−1·1
10	2 12 „	80·8	−1·5
11	3 12 „	80·6	−1·7
12	4 12 „	80·4	−1·9
13	5 12 „	80·2	−2·1
14	6 12 „	80·0	−2·3
15	7 12 „	80·1	−2·2
16	8 12 „	80·6	−1·7
17	9 12 „	81·6	−0·7
18	10 12 „	82·6	0·3
19	11 12 „	83·5	1·2
20	0 12 P. M.	84·3	2·0
21	1 12 „	84·8	2·5
22	2 12 „	85·1	2·8
23	3 12 „	85·1	2·8

FOR DAY AND NIGHT.

Mean of {2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,} or Night..	81°5
Mean of {14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 0, 1,} or Day.	83·0
Mean.....	82·3

TIMES OF MEAN MAX. AND MIN.

	G.M.T.	B.C.T.
A Minimum at about	14 or	6 A.M.
A Maximum at about	22 or	2 P.M.

TABLE XL.—*Excess of the Mean Hourly Values of Horizontal Intensity above the Monthly Mean Value.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	H. M.
Noon.	0·0023	0·0032	0·0020	0·0017	0·0028	−0·0005	0·0010	0·0009	0·0011	0·0015	0·0010	0·0023	4 12 P.M.
1	·0002	−·0003	−·0006	−·0020	−·0006	−·0027	−·0011	−·0008	−·0004	−·0011	−·0015	−·0004	5 12 „
2	−·0025	−·0039	−·0023	−·0041	−·0025	−·0036	−·0022	−·0033	−·0020	−·0027	−·0043	−·0030	6 12 „
3	−·0038	−·0059	−·0044	−·0053	−·0048	−·0053	−·0045	−·0047	−·0041	−·0051	−·0058	−·0056	7 12 „
4	−·0045	−·0064	−·0043	−·0051	−·0059	−·0055	−·0056	−·0056	−·0038	−·0063	−·0053	−·0059	8 12 „
5	−·0054	−·0062	−·0056	−·0054	−·0059	−·0064	−·0051	−·0056	−·0050	−·0071	−·0065	−·0072	9 12 „
6	−·0059	−·0059	−·0052	−·0053	−·0050	−·0055	−·0048	−·0051	−·0047	−·0065	−·0074	−·0074	10 12 „
7	−·0053	−·0054	−·0062	−·0051	−·0051	−·0045	−·0042	−·0045	−·0044	−·0058	−·0071	−·0072	11 12 „
8	−·0045	−·0054	−·0055	−·0043	−·0056	−·0042	−·0043	−·0040	−·0040	−·0052	−·0045	−·0054	Midnight.
9	−·0044	−·0049	−·0053	−·0058	−·0049	−·0041	−·0045	−·0038	−·0031	−·0053	−·0046	−·0054	1 12 A.M.
10	−·0043	−·0043	−·0049	−·0056	−·0050	−·0041	−·0045	−·0041	−·0030	−·0038	−·0044	−·0045	2 12 „
11	−·0044	−·0048	−·0054	−·0049	−·0041	−·0041	−·0046	−·0035	−·0027	−·0041	−·0041	−·0046	3 12 „
12	−·0045	−·0043	−·0052	−·0052	−·0039	−·0043	−·0046	−·0041	−·0027	−·0038	−·0038	−·0044	4 12 „
13	−·0039	−·0044	−·0052	−·0051	−·0037	−·0039	−·0038	−·0032	−·0025	−·0041	−·0032	−·0044	5 12 „
14	−·0029	−·0043	−·0048	−·0051	−·0039	−·0029	−·0028	−·0030	−·0026	−·0037	−·0026	−·0032	6 12 „
15	−·0028	−·0039	−·0034	−·0033	−·0026	−·0010	−·0010	−·0020	−·0040	−·0032	−·0017	−·0032	7 12 „
16	−·0003	·0015	·0009	·0018	·0012	·0025	·0023	·0003	−·0012	·0015	·0027	·0014	8 12 „
17	·0039	·0048	·0062	·0080	·0061	·0063	·0054	·0057	·0040	·0071	·0072	·0059	9 12 „
18	·0085	·0092	·0115	·0121	·0091	·0102	·0091	·0089	·0088	·0107	·0110	·0104	10 12 „
19	·0109	·0122	·0133	·0132	·0105	·0114	·0106	·0105	·0106	·0133	·0128	·0129	11 12 „
20	·0107	·0133	·0131	·0122	·0110	·0115	·0104	·0113	·0109	·0128	·0121	·0130	Noon.
21	·0094	·0120	·0114	·0097	·0101	·0098	·0063	·0102	·0079	·0099	·0091	·0110	1 12 P.M.
22	·0077	·0098	·0087	·0072	·0079	·0064	·0064	·0075	·0062	·0070	·0068	·0091	2 12 „
23	·0056	·0072	·0057	·0047	·0049	·0032	·0038	·0047	·0034	·0045	·0038	·0062	3 12 „

TABLE XLI.—*Excess of the Hourly Temperature of Air within the Box of the Large Horizontal Force Magnetometer, above the Monthly Mean.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
													H. M.
Noon.	2°8	3°6	3°1	2°4	2°4	1°7	1°7	1°0	1°5	2°4	3°0	3°7	4 12 P.M.
1	1·9	2·7	2·4	1·9	1·8	1·2	1·3	0·7	1·0	1·6	1·9	2·5	5 12 „
2	1·1	1·6	1·5	1·0	1·1	0·8	0·8	0·2	0·4	0·9	1·1	1·6	6 12 „
3	0·7	0·9	1·0	0·4	0·3	0·3	0·3	−0·1		0·6	0·6	1·0	7 12 „
4	0·3	0·4	0 6	0·1	−0·2	−0·1		−0·3	−0·1	0·1	0·3	0·5	8 12 „
5	−0·1	−0·1	0·1	−0·2	−0·5	−0·3	−0·2	−0·4	−0·3	−0·2	−0·1	−0·1	9 12 „
6	−0·5	−0·5	−0·3	−0·4	−0·7	−0·5	−0·3	−0·5	−0·5	−0·5	−0·8	−0·8	10 12 „
7	−0·8	−0·9	−0·6	−0·7	−0·9	−0·8	−0·5	−0·6	−0·6	−0·8	−1·2	−1·4	11 12 „
8	−0·9	−1·2	−1·0	−0·9	−1·1	−0·8	−0·6	−0·7	−0·7	−1·1	−1·4	−1·8	Midnight.
9	−1·2	−1·5	−1·3	−1·3	−1·3	−0·9	−0·9	−0·7	−0·9	−1·4	−1·6	−2·0	1 12 A.M.
10	−1·6	−1·8	−1·6	−1·6	−1·4	−1·1	−0·9	−0·8	−1·1	−1·5	−1·8	−2·2	2 12 „
11	−1·8	−2·2	−1·8	−1·8	−1·6	−1·3	−1·1	−0·9	−1·2	−1·7	−2·1	−2·5	3 12 „
12	−2·2	−2·5	−2·2	−2·1	−1·8	−1·4	−1·2	−1·0	−1·3	−1·9	−2·4	−2·7	4 12 „
13	−2·4	−2·9	−2·6	−2·3	−1·9	−1·4	−1·4	−1·0	−1·4	−2·2	−2·7	−2·9	5 12 „
14	−2·6	−3·1	−2·9	−2·4	−2·0	−1·5	−1·3	−0·9	−1·3	−2·4	−3·0	−3·1	6 12 „
15	−2·8	−3·3	−2·8	−2·1	−1·7	−1·2	−1·2	−0 9	−1·2	−2·3	−3·0	−3·1	7 12 „
16	−2·3	−2 8	−2 3	−1·4	−1·1	−0·8	−0·9	−0·6	−0·8	−1·7	−2·3	−2·9	8 12 „
17	−1·2	−1·6	−1·2	−0·2	−0·3	−0·3	−0·4	−0·2	−0·2	−0·6	−1·0	−1·6	9 12 „
18	0·2	−0·1	0·1	0·8	0·5	0·4	0·2	0·4	0·5	0·5	0·4	0·3	10 12 „
19	1·5	1·4	1·3	1·5	1·1	1·0	0·8	0·9	1·1	0·6	1·7	1·6	11 12 „
20	2·3	2·6	2·2	2·1	1·9	1·5	1·1	1·3	1·5	2·2	2·6	2·8	Noon.
21	3·0	3·4	2·9	2·5	2·3	1·8	1·4	1·6	1·7	2·7	3·3	3·7	1 12 P.M.
22	3·4	3·9	3·3	2·7	2·5	1·9	1·6	1·5	1·9	2·9	3·8	4·3	2 12 „
23	3·4	4·1	3·3	2·8	2·5	1·7	1·6	1·5	1·8	3·0	3·7	4·4	3 12 „

TABLE XLII.—*Showing the Hours in each Month, deduced from the Hourly Means, during which the Horizontal Force Magnet was on each side of the Mean Position for that Month.*

Months, 1857.	The marked end of the Magnet was South of the Mean Position	Length of Time the marked end was in the South of Mean Position.	The marked end was North of the Mean Position of Magnet	Length of Time the marked end was in the North of Mean Position.
		Hours.		Hours.
January	Between 2h. and 16h	15	Between 17h. and 1h	9
February	Between 1h. and 15h	15	Between 16h. and Noon	9
March	Between 1h. and 15h	15	Between 16h. and Noon	9
April	Ditto	15	Ditto	9
May	Ditto	15	Ditto	9
June	Between Noon and 15h	16	Between 16h. and 23h.	8
July	Between 1h. and 15h	15	Between 16h. and Noon	9
August	Ditto	15	Ditto	9
September	Between 1h. and 16h	16	Between 17h. and Noon	8
October	Between 1h. and 15h	15	Between 16h. and Noon	9
November	Ditto	15	Ditto	9
December	Ditto	15	Ditto	9

It appears from this Table that the Magnet passed its mean position twice in a day. The time at which the Magnet passes the mean position occurs at 16h. Göttingen time, and an hour or two before sunset; but the former is more constant than the latter, which changes in different seasons of the year. The Magnet remains for a longer time in the south of the mean position than in the north of it.

TABLE XLIII.—*Mean Hourly Values of Absolute Horizontal Intensity, diminished by the Monthly Mean, and the Mean Change for each Hour, in each Month, for each Hour of Time.*

Time.	MONTHS, 1857.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.
Noon.	0·0007	0·0016	0·0004	0·0001	0·0012	−0·0021	−0·0006	−0·0007	−0·0005	−0·0001	−0·0006	0·0007
1	·0012	·0007	·0004	−·0010	·0004	− ·0017	·0001	·0002	·0006	− ·0001	− ·0005	·0006
2	·0006	−·0008	·0003	−·0010	·0006	− ·0005	·0009	− ·0002	·0011	·0004	− ·0012	·0001
3	·0011	−·0010	·0005	−·0004	·0001	− ·0004	− ·0004	·0002	·0008	− ·0002	− ·0009	−·0007
4	·0011	−·0010	·0011	·0003	−·0005	− ·0001	·0002	− ·0002	·0016	− ·0009	− ·0004	−·0005
5	·0007	−·0001	·0005	·0007	·0002	− ·0003	·0010	·0005	·0011	− ·0010	− ·0004	−·0011
6	−·0001	−·0001	·0006	·0005	·0008	·0003	·0010	·0007	·0011	− ·0007	− ·0016	−·0016
7	·0001	·0000	−·0008	·0003	·0003	·0009	·0012	·0009	·0010	− ·0004	− ·0017	−·0018
8	·0003	−·0006	−·0007	·0005	−·0008	·0006	·0005	·0008	·0008	− ·0004	·0003	−·0006
9	−·0005	−·0010	−·0014	−·0019	−·0010	− ·0002	− ·0006	·0001	·0008	− ·0014	− ·0007	−·0015
10	·0001	·0001	−·0005	−·0012	−·0006	·0003	− ·0001	·0003	·0014	·0006	·0000	−·0001
11	−·0001	−·0005	−·0011	−·0006	·0002	·0002	− ·0003	·0008	·0016	·0002	·0002	−·0003
12	−·0002	·0000	−·0009	−·0009	·0004	·0000	− ·0003	·0002	·0016	·0005	·0005	−·0001
13	·0001	−·0004	−·0012	−·0011	·0003	·0001	·0002	·0008	·0015	− ·0001	·0008	−·0004
14	·0005	−·0009	−·0012	−·0017	−·0005	·0005	·0006	·0004	·0008	− ·0003	·0008	·0002
15	−·0001	−·0012	−·0007	−·0006	·0001	·0017	·0017	·0007	− ·0013	− ·0005	·0010	−·0005
16	−·0012	·0006	·0000	·0009	·0003	·0016	·0014	− ·0006	− ·0021	·0006	·0018	·0005
17	−·0019	−·0010	·0004	·0022	·0003	·0005	− ·0004	− ·0007	− ·0018	·0013	·0014	·0001
18	−·0014	−·0007	·0016	·0022	−·0008	·0003	− ·0008	− ·0010	− ·0011	·0008	·0011	·0005
19	−·0009	·0004	·0015	·0014	−·0013	− ·0004	− ·0012	− ·0013	− ·0012	·0015	·0010	·0011
20	−·0011	·0015	·0013	·0004	−·0008	− ·0003	− ·0014	− ·0005	− ·0009	·0010	·0003	·0012
21	−·0001	·0025	·0019	·0002	·0006	·0003	− ·0027	·0007	− ·0016	·0004	− ·0004	·0015
22	·0002	·0023	·0012	−·0003	·0004	− ·0011	− ·0011	·0000	− ·0013	− ·0005	− ·0007	·0016
23	.0009	·0025	·0010	·0000	·0002	− ·0015	− ·0009	·0000	− ·0013	− ·0002	− ·0009	·0015

The order of signs is not uniform in this Table, which shows that the changes in the Absolute Horizontal Force are not regular, but they vary according to the different seasons of the year.

TABLE XLIV.—*Showing, for each Month, the Diurnal Inequality in the Absolute Values of Horizontal Force, without regard to the Signs of Numbers in the preceding Table.*

Months, 1857.	Monthly Sums.	Mean Monthly Values.	FOR SEASONS.	
	En. Un.	En. Un.		
January	0·0152	0·0006		En. Un.
February	·0215	·0009	Mean of {Jan. Feb. March, / Oct. Nov. Dec.} or Winter.....	0·0183
March	·0212	·0009		
April	·0204	·0008		
May.....	·0127	·0005	Mean of {Apr. May, June, / July, Aug. Sept.} or Summer	0·0183
June.....	·0159	·0007		
July.....	·0196	·0008	Mean of the Year.....	0·0183
August.....	·0125	·0005		
September	·0289	·0012	Greatest monthly sum, in September	0·0289
October	·0141	·0006	Least monthly sum, in August.....	0·0125
November	·0192	·0008		
December	·0188	·0008	Difference.....	0·0164

TABLE XLV.—*Showing, for the Year* 1857, *the Diurnal Inequality of Absolute Horizontal Force, for each Hour of Göttingen Mean Time, without regard to the Signs of Numbers in Table XLIII.*

Göttingen Mean Time.	Bombay Civil Time.	Hourly Sums of Numbers in Table.	Mean Hourly Inequality.	FOR DAY AND NIGHT.	
	H. M.	En. Un.	En. Un.		
Noon.	4·12 P. M.	0.0093	0·0008		
1	5 12 „	·0075	·0006		
2	6 12 „	·0077	·0006		En. Un.
3	7 12 „	·0067	·0006	Sum of {2, 3, 4, 5, 6, 7, / 8, 9, 10, 11, 12, 13,} or Night	0·0904
4	8 12 „	·0079	·0007		
5	9 12 „	·0076	·0006		
6	10 12 „	·0091	·0008		
7	11 12 „	·0094	·0008	Sum of {14, 15, 16, 17, 18, 19, / 20, 21, 22, 23, Noon 1,} or Day	0·1296
8	0·12 A. M.	·0069	·0006		
9	1 12 „	·0111	·0009	Sum of Day and Night	0·2200
10	2 12 „	·0053	·0004		
11	3 12 „	·0061	·0005		
12	4 12 „	·0056	·0005		
13	5 12 „	·0070	·0006		
14	6 12 „	·0084	·0007		
15	7 12 „	·0101	·0008	TIMES OF MEAN MAXIMUM AND MINIMUM.	
16	8 12 „	·0116	·0010		G.M.T.
17	9 12 „	·0120	·0010	Greatest sum at about.....	19h.
18	10 12 „	·0123	·0010	Least sum at about.....	10h.
19	11 12 „	·0132	·0011		
20	0·12 P. M.	·0107	·0009		
21	1 12 „	·0129	·0011		
22	2 12 „	·0107	·0009		
23	3 12 „	·0109	·0009		

TABLE XLVI.—*Mean Temperature of Circumambient Air, for each Day of Göttingen Mean Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	74°4	74°9		85°6	86°1	85°2	82°3		78°6	80°3	78°7	74°1
2	76·6	76·4	81°0	84·7		81·7	82·7	79°2	79·2	81·1	78·9	73·3
3		76·9	79·9	83·8	85·9	84·4	83·3	79·4	* 79·3		78·5	73·9
4	75·4	73·9	80·3		86·5	85·5			79·4	79·5	79·1	76·4
5	73·8	73·8	79·5	81·5	86·2	85·4	83·4	78·2		81·0	80·1	
6	72·6	74·2	79·9	82·2	85·3		82·2	79·0	79·0	80·6	80·5	74·4
7	73·9			81·5	85·6	85·5	83·2	79·4	78·5	81·4		73·2
8	74·8	75·5	79·7	82·6	86·1	85·8	83·3		78·4	81·2	81·0	73·7
9	75·3	76·2	79·5			85·7	84·3	78·7	77·6	81·1	80·3	73·0
10		77·2		80·9	85·9	85·4	84·6	78·5	78·6		78·6	72·2
11	76·5	78·7	79·6		86·3	82·5		79·3	79·4	81·2	77·7	73·5
12	75·5	78·8	80·5	83·2	86·4	84·2	84·5	80·2		80·4	78·0	
13	74·1	77·5	79·7	83·4	86·1		83·7	80·4	79·0	79·7	78·1	77·5
14	73·0			83·4	85·8	84·9	83·3		79·1	79·7		77·1
15	75·5	76·7	80·6	83·1	85·7	84·5	83·3		80·4	81·1	76·9	74·7
16	75·1	77·7	82·2	83·7		84·0	83·1	78·9	78·3		78·6	* 73·0
17		78·3	85·1	82·7	85·7	81·4	83·6	78·6	78·1		78·7	* 72·0
18	75·5	79·6	84·9		86·2	81·1		78·6	76·7	80·5	75·7	* 72·8
19	76·5	79·7	83·9	80·5	86·2	82·8	82·6	78·0		80·5	76·6	
20	79·4	78·1	83·1	79·5	86·7		82·8	78·0	78·1	81·4	76·2	74·2
21	78·3			82·7	86·8	84·9	81·7	79·1	* 78·4	81·8		74·2
22	76·8	79·3	83·3	82·5	86·6	80·6	82·0		79·8	81·1	75·1	73·7
23	75·2	79·6	84·4	82·7		79·7	83·4	80·0	79·6	80·5	75·3	73·3
24		80·2	83·8	82·6	85·9	80·8	80·6	80·2	78·4		74·4	
25	74·8	81·1	83·2		85·0	82·5		80·6	79·1	80·4	74·3	73·5
26	73·1	79·5	82·1	84·1	86·3	82·7	80·7	80·2		80·3	73·8	
27	70·0	80·4	83·2	84·5	84·1		77·1	80·3	80·5	79·7	74·1	* 73·2
28	72·2	79·9		84·7	87·1	83·0	77·9	80·4	80·2	79·7	74·5	* 73·7
29	72·4		82·6	85·7	87·4	82·9	77·1	80·5	80·2	79·2		73·1
30	72·7		84·3	85·6	86·8	82·7	79·9		79·9	78·9	76·4	73·8
31			84·6				77·2	80·8				74·1

* This sign denotes the days of Magnetic disturbance.

TABLE XLVII.—*Showing, for each Month, the Mean Temperature of Circumambient Air; and its Periodic Changes from the Mean of the Year.*

Months, 1857.	Mean Temperature of Circumambient Air.	Difference from the Mean of the Year.	FOR SEASONS.	
January	74°7	− 5°3	Mean of {Jan. Feb. Mar. / Oct. Nov. Dec.} or Winter.....	77°7
February	77·8	− 2·2		
March	82·0	2·0		
April	83·1	3·1	Mean of {Apr. May, June, / July, Aug. Sept.} or Summer	82·3
May.....	86·1	6·1		
June	83·5	3·5		
July.....	82·0	2·0	Mean of the year.....	80·0
August.....	79·4	− 0·6		
September	79·0	− 1·0	Greatest monthly mean, in May	86·1
October	80·5	0·5	Least monthly mean, in December.....	74·1
November	77·3	− 2·7		
December	74·1	− 5·9	Difference.....	12·0

TABLE XLVIII.—*Mean Temperature of Circumambient Air, in each Month, for each Hour of Göttingen Mean and Bombay Civil Time.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
													H. M.
Noon.	80°7	84°9	88°2	87°9	90°9	86°0	84°7	80°7	82°0	85°7	83°6	81°4	4 12 P.M.
1	78·6	83·3	86·8	85·8	88·9	85·1	83·6	79·9	80·7	84·0	81·2	78·4	5 12 „
2	76·1	79·8	83·6	83·5	86·7	83·7	82·4	79·1	79·3	81·9	78·5	76·5	6 12 „
3	75·4	78·4	82·2	82·3	85·2	82·9	81·5	78·8	78·7	81·1	78·3	75·5	7 12 „
4	74·8	77·5	81·5	81·7	84·1	82·7	81·2	78·7	78·4	80·1	77·8	74·8	8 12 „
5	73·9	76·5	80·6	81·3	83·8	81·6	80·8	78·6	78·1	79·5	76·7	73·4	9 12 „
6	73·0	75·7	79·7	80·7	83·6	81·5	80·7	78·4	77·7	78·8	75·0	71·6	10 12 „
7	72·4	75·1	79·4	80·4	83·2	81·3	80·6	78·5	77·4	78·2	74·1	70·4	11 12 „
8	72·0	74·3	78·8	80·0	83·0	81·0	80·5	78·5	77·2	77·6	74·0	69·7	Midnight.
9	71·3	73·8	78·3	79·5	82·7	81·0	80·2	78·3	77·0	77·0	73·5	69·0	12 A. 1 M.
10	70·9	73·3	77·8	79·1	82·5	81·0	79·9	78·1	76·8	76·9	73·2	69·0	2 12 „
11	70·7	72·8	77·5	78·7	82·2	80·7	79·8	77·9	76·6	76·7	72·7	68·8	3 12 „
12	70·1	72·5	77·0	78·2	82·0	80·6	79·7	77·7	76·5	76·3	72·4	68·7	4 12 „
13	69·9	71·9	76·3	77·8	81·7	80·6	79·8	77·8	76·3	75·9	72·1	68·8	5 12 „
14	69·8	71·4	75·6	77·8	82·1	80·7	79·9	78·1	76·4	75·8	71·7	68·4	6 12 „
15	69·7	71·7	76·7	80·7	84·3	82·0	80·6	78·4	77·3	77·2	72·7	68·8	7 12 „
16	72·0	74·8	80·1	83·6	86·3	83·0	81·6	79·2	78·5	79·1	75·0	71·5	8 12 „
17	74·3	77·5	82·8	85·5	87·7	84·3	82·4	80·1	79·8	80·7	77·2	73·7	9 12 „
18	76·3	79·9	84·8	86·8	89·2	85·9	83·4	80·8	80·7	81·9	79·1	75·8	10 12 „
19	78·1	82·2	86·6	87·8	90·5	86·9	84·2	81·4	81·5	83·4	80·8	78·0	11 12 „
20	79·7	84·0	87·8	88·7	91·4	87·6	84·7	82·0	82·1	84·8	82·1	80·2	Noon.
21	80·9	84·6	88·6	89·2	91·8	88·0	85·1	82·1	82·3	85·7	83·6	81·7	1 12 P.M.
22	81·6	85·1	88·9	89·2	91·8	87·8	85·4	81·7	82·3	86·3	84·4	82·3	2 12 „
23	81·6	85·4	88·9	89·0	91·4	87·0	85·2	81·8	82·7	86·6	84·5	82·3	3 12 „

TABLE XLIX.—*Showing, for the Year* 1857, *the Hours of Göttingen Mean Time, at which the Mean Temperature of Circumambient Air, in each Month, was at its Maximum and Minimum.*

Months, 1857.	The Mean Hourly Temperature of Circumambient Air.		Mean Diurnal Range.	The Time at which the Mean Hourly Temperature of Circumambient Air was at its	
	Maximum.	Minimum.		Maximum.	Minimum.
				H. H.	H.
January	81°6	69°7	11°9	22 & 23	15
February	85·4	71·4	14·0	23	14
March	88·9	75·6	13·3	22 & 23	14
April	89·2	77·8	11·4	21 & 22	13 & 14
May	91·8	81·7	10·1	21 & 22	13
June	88·0	80·6	7·4	21	12 & 13
July	85·4	79·7	5·7	22	12
August	82·1	77·7	4·4	21	12
September	82·7	76·3	6·4	23	13
October	86·6	75·8	10·8	23	14
November	84·5	71·7	12·8	23	14
December	82·3	68·4	13·9	22 & 23	14
Mean of {Jan. Feb. Mar. / Oct. Nov. Dec.} or Winter			12·8	23	14
Mean of {Apr. May June / July Aug. Sept.} or Summer			7·6	21 or 22	13

TABLE L.—*Showing, for the Year* 1857, *the Mean Temperature of Circumambient Air, for each Hour of Göttingen Mean Time; and also its Diurnal Changes from the Mean.*

Göttingen Mean Time.	Bombay Civil Time.	Mean Temperature of Circumambient Air.	Difference from the Mean of the Whole.
	H. M.		
Noon.	4 12 P. M.	84°7	4°8
1	5 12 „	83·0	3·1
2	6 12 „	80·9	1·0
3	7 12 „	80·0	0·1
4	8 12 „	79.4	− 0·5
5	9 12 „	78·7	− 1·2
6	10 12 „	78·0	− 1·9
7	11 12 „	77·6	− 2·3
8	0 12 A. M.	77·0	− 2·9
9	1 12 „	76·8	− 3·1
10	2 12 „	76·5	− 3·4
11	3 12 „	76·2	− 3·7
12	4 12 „	75·8	− 4·1
13	5 12 „	75·7	− 4·2
14	6 12 „	75·6	− 4·3
15	7 12 „	76·7	− 3·2
16	8 12 „	78·7	− 1·2
17	9 12 „	80·5	0·6
18	10 12 „	82·0	2·1
19	11 12 „	83·5	3·6
20	0 12 P. M.	84·6	4·7
21	1 12 „	85·3	5·4
22	2 12 „	85·6	5·7
23	3 12 „	85·5	5·6

FOR DAY AND NIGHT.

Mean of {2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,} or Night ..... 77°7

Mean of {14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 0, 1,} or Day ..... 82·2

Mean..... 79·9

TIMES OF MEAN MAXIMUM AND MINIMUM.

	G. M. T.	B. C. T.
A minimum at	about 14h. or	6 A. M.
A maximum at	about 22h. or	2 P. M.

TABLE LI.—*Excess of Mean Hourly Temperature of Circumambient Air above the Monthly Mean.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
													H. M.
Noon.	6°0	7°2	6°2	4°8	4°7	2°5	2°7	1°2	2°9	5°2	6°3	7°3	4 12 P.M.
1	3·9	5·6	4·8	2·7	2·7	1·7	1·6	0·5	1·7	3·6	3·9	4.3	5 12 „
2	1·4	2·0	1·6	0·4	0·5	0·2	0·5	− 0·3	0·2	1·4	1·2	2·4	6 12 „
3	0·7	0·6	0·2	− 0·8	− 1·0	− 0·6	− 0·5	− 0·6	− 0·4	0·6	1·0	1·4	7 12 „
4		− 0·2	− 0·5	− 1·4	− 2·0	− 0·8	− 0·8	− 0·7	− 0·6	− 0·4	0·5	0·6	8 12 „
5	− 0·9	− 1·2	− 1·5	− 1·8	− 2·3	− 1·8	− 1·2	− 0·9	− 0·9	− 1·0	− 0·6	− 0·7	9 12 „
6	− 1·7	− 2·1	− 2·3	− 2·4	− 2·5	− 2·0	− 1·3	− 1·1	− 1·3	− 1·6	− 2·3	− 2·6	10 12 „
7	− 2·3	− 2·6	− 2·7	− 2·7	− 2·9	− 2·2	− 1·4	− 0·9	− 1·6	− 2·3	− 3·2	− 3·7	11 12 „
8	− 2·7	− 3·4	− 3·2	− 3·1	− 3·1	− 2·4	− 1·5	− 1·0	− 1·8	− 2·9	− 3·4	− 4·5	Midnight
9	− 3·4	− 3·9	− 3·8	− 3·6	− 3·4	− 2·4	− 1·8	− 1·2	− 2·0	− 3·5	− 3·8	− 5·2	1 12 A.M.
10	− 3·8	− 4·5	− 4·2	− 4·0	− 3·6	− 2·5	− 2·0	− 1·3	− 2·2	− 3·5	− 4·1	− 5·2	2 12 „
11	− 4·1	− 5·0	− 4·5	− 4·6	− 3·9	− 2·7	− 2·2	− 1·5	− 2·4	− 3·8	− 4·7	− 5·3	3 12 „
12	− 4·6	− 5·3	− 5·0	− 4·9	− 4·2	− 2·8	− 2·3	− 1·7	− 2·5	− 4·1	− 4·9	− 5·4	4 12 „
13	− 4·8	− 5·9	− 5·8	− 5·3	− 4·4	− 2·8	− 2·2	− 1·6	− 2·7	− 4·5	− 5·2	− 5·4	5 12 „
14	− 5·0	− 6·4	− 6·4	− 5·4	− 4·0	− 2·8	− 2·1	− 1·3	− 2·6	− 4·7	− 5·6	− 5·7	6 12 „
15	− 5·0	− 6·1	− 5·3	− 2·4	− 1·8	− 1·4	− 1·4	− 1·1	− 1·7	− 3·3	− 4·5	− 5·3	7 12 „
16	− 2·7	− 3·0	− 2·0	0·5	0·2	− 0·5	− 0·4	− 0·3	− 0·5	− 1·4	− 2·3	− 2·6	8 12 „
17	0·4	− 0·3	0·8	2·4	1·6	0·9	0·5	0·6	0·8	0·2	− 0·1	− 0·4	9 12 „
18	1·6	2·2	2·7	3·7	3·0	2·4	1·5	1·3	1·6	1·4	1·8	1·7	10 12 „
19	3·3	4·4	4·6	4·7	4·4	3·4	2·2	2·0	2·5	3·0	3·5	3·9	11 12 „
20	5·0	6·2	5·8	5·6	5·2	4·2	2·7	2 5	3·1	4·4	4·8	6·0	Noon.
21	6·1	6·8	6·6	6·1	5·7	5·6	3·1	2·7	3·3	5·2	6·3	7·5	1 12 P.M.
22	6·8	7·4	6·8	6·1	5·6	4·3	3·4	2·3	3·6	5·9	7·1	8·2	2 12 „
23	6·9	7·7	6·8	5·9	5·2	3·6	3·2	2·4	3·4	6·1	7·2	8·2	3 12 „

TABLE LII.—*Mean Value of Absolute Horizontal Intensity, corrected for the Effects of Circumambient Air, for each Day of Göttingen Mean Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.
1	8·0300	8·0302		8·0196	8·0226	8·0214	8·0240		8·0251	8·0189	8·0270	8·0491
2	·0262	·0315	8·0291	·0210		·0262	·0239	8·0260	·0262	·0202	·0316	·0369
3		·0295	·0312	·0252	·0231	·0230	·0222	·0183	·0095*		·0282	·0385
4	·0248	·0323	·0276		·0212	·0192			·0105*	·0282	·0225	·0392
5	·0263	·0332	·0257	·0265	·0228	·0208	·0240	·0274		·0237	·0236	
6	·0304	·0340	·0272	·0234	·0216		·0260	·0273	·0218	·0287	·0273	·0385
7	·0281			·0253	·0004*	·0228	·0258	·0217	·0196	·0220		·0418
8	·0265	·0262	·0254	·0256	·0026	·0231	·0148		·0213	·0257	·0265	·0434
9	·0305	·0272	·0271			·0259	·0162	·0239	·0224	·0262	·0147	·0441
10		·0243		·0267	·0098	·0276	·0175	·0246	·0172		·0225	·0408
11	·0276	·0257	·0233		·0060	·0315		·0246	·0196	·0265	·0218	·0406
12	·0293	·0272	·0272	·0097	·0105	·0285	·0148	·0203		·0280	·0226	
13	·0284	·0286	·0236	·0154	·0118		·0189	·0209	·0248	·0305	·0272	·0391
14	·0317			·0194	·0146	·0238	·0192		·0205	·0321		·0377
15	·0312	·0306	·0250	·0223	·0172	·0235	·0206		·0173	·0221	·0336	·0413
16	·0240	·0260	·0256	·0229		·0227	·0205	·0227	·0219		·0280	·0345*
17		·0289	·0167	·0228	·0205	·0251	·0176	·0222	·0231		·0165	7·9876*
18	·0242	·0266	·0166		·0210	·0230		·0250	·0247	·0193	·0198	8·0200*
19	·0231	·0263	·0197	·0278	·0199	·0242	·0230	·0243		·0200	·0305	
20	·0224	·0299	·0224	·0315	·0197		·0234	·0242	·0280	·0193	·0347	·0249
21	·0240			·0265	·0175	·0222	·0251	·0232	·0116*	·0200		·0287
22	·0264	·0299	·0216	·0271	·0180	·0185	·0270		·0160	·0240	·0374	·0308
23	·0271	·0281	·0219	·0269		·0261	·0189	·0194	·0185	·0222	·0300	·0268
24		·0294	·0233	·0267	·0240	·0247	·0225	·0233	·0241		·0305	
25	·0274	·0287	·0245		·0216	·0254		·0250	·0240	·0240	·0335	·0335
26	·0279	·0289	·0257	·0254	·0219	·0268	·0190	·0263		·0254	·0365	
27	·0341	·0238	·0257	·0212	·0231		·0246	·0264	·0246	·0296	·0333	·0282*
28	·0327	·0262		·0213	·0187	·0141	·0239	·0220	·0274	·0314	·0340	·0190*
29	·0335		·0237	·0188	·0212	·0204	·0240	·0234	·0273	·0236		·0252
30	·0340		·0208	·0216	·0163	·0174	·0266		·0196	·0233	·0379	·0417
31			·0253				·0256	·0266				·0411

* This sign denotes abnormal days, or the days on which Magnetic disturbances occurred.

TABLE LIII.—*Showing the Number of Instances in which the Difference between the Mean Daily Values of Horizontal Intensity, corrected for the Effects of Circumambient Air, was within certain Limits.*

Difference between the Mean Daily Values of Horizontal Intensity, on two Consecutive Days, was				January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole Number of Cases in the Year.
	En. Un.		En. Un.													
Greater than	0·0000	and less than	0·0010	9	5	5	7	5	4	7	8	3	6	5	5	69
,, ,,	0·0010	,,	0·0020	7	7	8	5	6	5	7	5	6	7	1	4	68
,, ,,	0·0020	,,	0·0030	3	7	4	3	6	5	5	2	4	2	1	1	43
,, ,,	0·0030	,,	0·0040	2	1	5	2	2	6	2	3	2	1	7	5	38
,, ,,	0·0040	,,	0·0050	2	1	1	3	3	2	1	2	3	3	3	2	26
,, ,,	0·0050	,,	0·0060		1		3			2	1	3	1	2	1	14
,, ,,	0·0060	,,	0·0070	1				1	1				1	1	3	8
,, ,,	0·0070	,,	0·0080	1	1			1	1		1	1	1	2		9
,, ,,	0·0080	,,	0·0090			1				1			1			3
,, ,,	0·0090	,,	0·0100								1				1	2
,, ,,	0·0100	,,	0·0110										1	1		2
,, ,,	0·0110	,,	0·0120							1		1		2		4
,, ,,	0·0120	,,	0·0160				1		1							2
,, ,,	0·0160	,,	0·0200									2			1	3
,, ,,	0·0200							1							2	3

It appears from this Table that the mean daily values of Horizontal Intensity, cleared of all corrections, have not generally differed more than 0·006 English Units on two consecutive days of each month. There were 36 instances in which the difference between the mean daily values of two consecutive days was greater than 0·006 English Units; in three instances only the difference was greater than 0·020 English Units.

TABLE LIV.—*Showing the Greatest and Least Difference between the Daily Mean Values of Horizontal Intensity, on two consecutive Days, in each Month of the Year* 1857.

Months, 1857.	Difference between the Daily Means of two consecutive Days was		Difference.	The Days between which the Difference was	
	Greatest.	Least.		Greatest.	Least.
	En. Un.	En. Un.	En. Un.	D	D
January	0·0072	0·0002	0·0070	15 & 16	16 & 18
February	·0078	·0000	·0078	6 & 8	20 & 22
March	·0089	·0000	·0089	16 & 17	26 & 27
April	·0170	·0001	·0169	10 & 12	16 & 17 27 & 28
May	·0212	·0002	·0210	6 & 7	19 & 20
June	·0127	·0003	·0124	26 & 28	7 & 8 14 & 15
July	·0110	·0001	·0109	7 & 8	1 & 2 28 & 29
August	·0091	·0000	·0091	3 & 5	10 & 11
September	·0167	·0001	·0166	2 & 3	24 & 25 28 & 29
October	·0100	·0003	·0097	14 & 15	29 & 30
November	·0118	·0005	·0113	8 & 9	23 & 24
December	·0469	·0002	·0467	16 & 17	10 & 11

The difference of the mean daily values of two consecutive days was greater than 0·020 in three instances out of 306. The greatest difference was 0·0469 English Units, which occurred between the 16th and 17th of December.

TABLE LV.—*Showing the Greatest and Least Mean Daily Values of Horizontal Intensity, corrected for the Effects of Air, in each Month of the Year* 1857.

Months, 1857.	Mean Daily Value of Horizontal Force.		Difference.	The Day on which the Mean Value was	
	Greatest.	Least.		Greatest.	Least.
	En. Un.	En. Un.	En. Un.	D.	D.
January	8·0341	8·0224	0·0117	27	20
February	·0340	·0238	·0102	6	27
March	·0312	·0166	·0146	3	18
April	·0315	·0097	·0218	20	12
May	·0240	·0004	·0236	24	7
June	·0315	·0141	·0174	11	28
July	·0270	·0148	·0122	22	8 & 12
August	·0274	·0183	·0091	5	3
September	·0280	·0095	·0185	20	3
October	·0321	·0189	·0132	14	1
November	·0379	·0147	·0232	30	9
December	·0441	7·9876	·0565	9	17

It appears from this Table that the daily positions of the Horizontal Force Magnet were subject to less variations in the month of August than in any other months of this year. The extreme range of the mean daily values of Horizontal Force was 0·0565 English Units, being about 0·02 higher than the extreme range of the last year.

TABLE LVI.—*Showing, for each Month, the Mean Value of Horizontal Intensity, corrected for the Effects of Air; and its Periodic Changes from the Mean of the Year.*

Months, 1857.	Mean Monthly Value of Horizontal Intensity.	Difference from the Mean of the Year.
	En. Un.	En. Un.
January	8·0282	0·0030
February	·0284	0·0032
March	·0243	− 0·0009
April	·0232	− 0·0020
May	·0178	− 0·0074
June	·0233	− 0·0019
July	·0217	− 0·0035
August	·0238	− 0·0014
September	·0223	− 0·0029
October	·0246	− 0·0006
November	·0281	0·0029
December	·0369	·00117

FOR SEASONS.	
	En. Un.
Mean of { Jan. Feb. March, Oct. Nov. Dec. } or Winter ..	8·0284
Mean of { April, May, June, July, Aug. Sept. } or Summer..	8·0220
Mean of the year	8·0252
Greatest monthly mean, in December	8·0369
Least monthly mean, in May.....	8·0178
Difference....	0·0191

A curve projected from the mean monthly values of Horizontal Force, cleared for all corrections, will nearly resemble the curve of the temperature of Free Air; but only with this difference, that a rise in temperature is attended with a fall in the values of Horizontal Force.

TABLE LVII.—*Mean Value of Absolute Horizontal Intensity, corrected for the Effects of Circumambient Air in each Month, for each Hour of Göttingen Mean and Bombay Civil Time.*

Göttingen Mean Solar Time.	MONTHS 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	H. M.
Noon.	8·0209	8·0203	8·0164	8·0173	8·0130	8·0188	8·0184	8·0226	8·0186	8·0178	8·0190	8·0276	4 12 P. M.
1	·0221	·0193	·0160	·0169	·0128	·0180	·0180	·0222	·0192	·0179	·0204	·0297	5 12 „
2	·0234	·0213	·0189	·0185	·0144	·0194	·0189	·0209	·0198	·0197	·0219	·0301	6 12 „
3	·0233	·0216	·0196	·0192	·0145	·0190.	·0180	·0200	·0187	·0185	·0207	·0297	7 12 „
4	·0235	·0225	·0208	·0204	·0151	·0191	·0174	·0193	·0195	·0189	·0215	·0299	8 12 „
5	·0241	·0243	·0209	·0210	·0156	·0189	·0185	·0194	·0187	·0191	·0226	·0309	9 12 „
6	·0250	·0259	·0228	·0218	·0168	·0210	·0190	·0203	·0195	·0208	·0244	·0335	10 12 „
7	·0266	·0273	·0223	·0225	·0174	·0223	·0197	·0207	·0205	·0225	·0261	·0357	11 12 „
8	·0280	·0286	·0239	·0239	·0172	·0231	·0198	·0212	·0212	·0240	·0289	·0386	Midnight.
9	·0292	·0299	·0249	·0232	·0184	·0232	·0201	·0217	·0224	·0249	·0296	·0397	1 12 A. M.
10	·0300	·0313	·0261	·0240	·0186	·0232	·0206	·0217	·0228	·0266	·0303	.0406	2 12 „
11	·0302	·0316	·0261	·0254	·0200	·0237	·0206	·0227	·0234	·0266	·0314	·0408	3 12 „
12	·0310	·0326	·0271	·0259	·0205	·0136	·0208	·0224	·0236	·0275	·0322	·0412	4 12 „
13	·0320	·0335	·0282	·0266	·0219	·0240	·0214	·0231	·0241	·0279	·0322	·0410	5 12 „
14	·0331	·0344	·0307	·0267	·0203	·0249	·0223	·0228	·0239	·0284	·0345	·0429	6 12 „
15	·0334	·0343	·0294	·0238	·0181	·0247	·0229	·0234	·0210	·0268	·0338	.0422	7 12 „
16	·0322	·0317	·0282	·0242	·0187	·0266	·0246	·0244	·0219	·0283	·0345	·0425	8 12 „
17	·0327	·0337	·0292	·0274	·0214	·0283	·0265	·0277	·0250	·0314	·0355	·0435	9 12 „
18	·0341	·0343	·0313	·0294	·0220	·0297	·0286	·0304	·0284	·0331	·0362	·0446	10 12 „
19	·0336	·0336	·0302	·0289	·0213	·0293	·0288	·0311	·0289	·0333	·0353	·0436	11 12 „
20	·0309	·0318	·0281	·0265	·0204	.0282	·0278	·0309	·0282	·0305	·0324	·0402	Noon.
21	·0277	·0295	·0251	.0232	·0188	·0259	·0288	·0296	·0249	·0266	·0271	·0358	1 12 P. M.
22	·0248	·0265	·0220	·0207	·0166	·0228	·0227	·0276	·0232	·0223	·0236	·0329	2 12 „
23	·0227	·0235	·0184	·0185	·0143	·0209	·0204	·0246	·0198	·0193	·0204	·0300	3 12 „

TABLE LVIII.—*Showing, for the Year* 1857, *the Mean Value of Absolute Horizontal Intensity, corrected for the Effects of Circumambient Air, for each Hour of Göttingen Mean Time; and also its Diurnal Changes from the Mean of the Year.*

Göttingen Mean Time.	Bombay Civil Time.	Mean Value of Horizontal Intensity, corrected for the Effects of Air.	Difference from the Mean of the Whole.
	H. M.	En. Un.	En. Un.
Noon.	4 12 P. M.	8·0193	− 0·0059
1	5 „	·0194	− ·0058
2	6 „	·0205	− ·0047
3	7 „	·0201	− ·0051
4	8 „	·0208	− ·0044
5	9 „	·0212	− ·0040
6	10 „	·0226	− ·0026
7	11 „	·0236	− ·0016
8	0 12 A. M.	·0252	− ·0000
9	1 „	·0264	·0012
10	2 „	·0264	·0012
11	3 „	·0270	·0018
12	4 „	·0276	·0024
13	5 „	·0281	·0029
14	6 „	·0288	·0036
15	7 „	·0278	·0026
16	8 „	·0282	·0030
17	9 „	·0302	·0050
18	10 „	·0319	·0067
19	11 „	·0314	·0062
20	0 12 P. M.	·0296	·0044
21	1 „	·0262	·0010
22	2 „	·0237	− ·0015
23	3 „	·0211	− ·0041

FOR DAY AND NIGHT.

	En. Un.
Mean of {2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,} or Night.....	8·0241
Mean of {14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 0, 1,} or Day.....	8·0264
Mean	8·0252

TIMES OF MEAN MAXIMUM AND MINIMUM.

	G. M. T.	B. C. T.
A minimum at about	Noon or	4 P. M.
A maximum at about	2 or	6 „
A minimum at about	3 or	7 „
A maximum at about	14 or	6 A. M.
A minimum at about	15 or	7 „
A maximum at about	18 or	10 „

It appears, from this and the preceding Tables, that the Horizontal Intensity, cleared of all corrections, has generally three maxima and minima; but in some months more than three maxima and minima are apparent in the diurnal movements of Horizontal Force. The best time for ascertaining the Mean Horizontal Force from a single observation is midnight.

TABLE LIX.—*Showing, for the Year* 1857, *the Hours of Göttingen Mean Solar Time about which the Mean Value of Horizontal Intensity, corrected for the Effects of Circumambient Air, in each Month, was at its Diurnal Maximum and Minimum.*

Months, 1857.	The Mean Value of Horizontal Intensity, corrected for the Effects of Air, was at its						Mean Diurnal Range.	The Time at which the Mean Horizontal Intensity was at its					
	1st Evening Minimum.	1st Evening Maximum.	2nd Evening Minimum.	Morning Maximum.	Morning Minimum.	Mid-day Maximum.		1st Evening Minimum.	1st Evening Maximum.	2nd Evening Minimum.	Morning Maximum.	Morning Minimum.	Mid-day Maximum.
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	H.	H.	H.	H.	H.
January	8·0209	8·0234	8·0233	8·0334	8·0322	8·0341	0·0132	Noon.	2	3	15	16	18
February	·0193			·0344	·0317	·0343	·0151	1			14	16	18
March	·0160	·0228	·0223	·0307	·0282	·0313	·0153	1	6	7	14	16	18
April	·0169	·0239	·0232	·0267	·0238	·0294	·0125	1	8	9	14	15	18
May	·0128	·0174	·0172	·0219	·0181	·0220	·0092	1	7	8	13	15	18
June	·0180	·0194	·0189	·0249	·0247	·0297	·0117	1	2	5	14	15	18
July	·0180	·0189	·0174			·0288	·0114	1	2	4			19
August			·0193	·0231	·0228	·0311	·0118			4	13	14	19
September	·0186	·0198	·0187	·0241	·0210	·0289	·0103	Noon.	2	5	13	15	19
October	·0178	·0197	·0185	·0284	·0268	·0333	·0155	Noon.	2	3	14	15	19
November	·0190	·0219	·0207	·0345	·0338	·0362	·0172	Noon.	2	3	14	15	18
December	·0276	·0301	·0297	·0429	·0422	·0446	·0170	Noon.	2	3	14	15	18

It appears from this Table that the Horizontal Force Magnet during this year has reached its extreme position at its mid-day maxima, except in February, in which month it took its extreme position at about 14h. Göttingen Time. The times of maxima and minima vary according to the seasons of the year.

First evening minimum, earlier in Winter and later in Summer.

First evening maximum, not constant.

Second evening minimum, „ „

Morning maximum, earlier in Summer and later in Winter.

Morning minimum, „ „ „

Mid-day maximum, remains nearly constant.

VERTICAL FORCE.

The changes of this component of the Earth's magnetic force were obtained by means of the Scale Readings of Vertical Force Magnetometer.

This Instrument is rather sluggish in its movements in the rainy season, occasioned, no doubt, from the humidity of Atmospheric Air, which affects the Instrument, notwithstanding the usual precautions which had been adopted to keep the Box of the Instrument from damp.

The Values of Vertical Intensity, calculated from the Scale Readings of Vertical Force Magnetometer, were further corrected for Instrumental Errors.

TABLE LX.—*Mean Values of Absolute Vertical Intensity, obtained from the Scale Readings of Vertical Force Magnetometer, corrected for Instrumental Errors, for each Day of Göttingen Mean Time.*

Date, 1857.	January.	February	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.
1	2·7700	2·7495		2·7645	2·7735	2·7809	2·7814		2·7890	2·7930	2·7857	2·8065
2	·7648	·7479	2·7620	·7668		·7880	·7804	2·7979	·7895	·7918	·7848	·8062
3		·7457	·7623	·7710	·7697	·7861	·7813	·7932	*·7910		·7847	·8050
4	·7606	·7496	·7653		·7699	·7827			*·7885	·7927	·7906	·8027
5	·7606	·7532	·7656	·7761	·7691	·7826	·7847	·7945		·7914	·7855	
6	·7619	·7521	·7652	·7764	·7695		·7864	·7960	·7858	·7905	·7843	·8022
7	·7577			·7763	*·7698	·7855	·7878	·7920	·7867	·7891		·8036
8	·7547	·7548	·7686	·7773	*·7630	·7870	·7879		·7895	·7881	·7826	·8029
9	·7507	·7540	·7693			·7895	·7848	·7901	·7903	·7867	·7842	·8021
10		·7466		·7795	·7680	·7899	·7850	·7897	·7933		·7851	·8019
11	·7450	·7476	·7694		·7687	·7952		·7870	·7893	·7865	·7865	·8015
12	·7441	·7486	·7692	·7803	·7683	·7925	·7885	·7801		·7851	·7888	
13	·7462	·7507	·7717	·7794	·7702		·7946	·7772	·7891	·7845	·7887	·7964
14	·7483			·7772	·7739	·7918	·7996		·7878	·7846		·7949
15	·7447	·7541	·7704	·7769	·7774	·7934	·8015		·7834	·7845	·7875	·7946
16	·7432	·7532	·7695	·7753		·7925	·8032	·7840	·7842		·7885	*·7947
17		·7531	·7634	·7739	·7759	·7927	·8020	·7845	·7851		·7928	*·7980
18	·7449	·7528	·7623		·7755	·7940		·7813	·7838	·7799	·7943	*·7985
19	·7443	·7516	·7640	·7812	·7761	·7868	·8018	·7798		·7787	·7948	
20	·7424	·7530	·7655	·7867	·7790		·8044	·7790	·7787	·7775	·7941	·7947
21	·7409			·7841	·7783	·7794	·8081	·7782	*·7739	·7762		·7924
22	·7405	·7552	·7624	·7814	·7770	·7839	·8112		·7615	·7743	·7908	·7853
23	·7440	·7559	·7655	·7818		·7882	·8072	·7672	·7568	·7734	·7917	·7832
24		·7571	·7661	·7804	·7786	·7869	·8079	·7674	·7606		·7924	
25	·7473	·7557	·7664		·7819	·7823		·7670	·7757	·7723	·7928	·7824
26	·7487	·7565	·7700	·7790	·7805	·7812	·8060	·7700		·7708	·8052	
27	·7530	·7580	·7722	·7793	·7822		·8160	*·7733	·8067	·7694	·8080	*·7798
28	·7522	·7616		·7782	·7790	·7796	·8176	·7751	·8041	·7685	·8080	*·7802
29	·7510		·7691	·7763	·7748	·7802	·8127	·7773	·7995	·7678		·7787
30	·7517		·7677	·7745	·7757	·7792	·8070		·7945	·7674	·8059	·7699
31			·7659				·8049	·7825				·7686

* This sign denotes abnormal days, or the days on which Magnetic Disturbances occurred.

TABLE LXI.—*Showing the Number of Instances in which the Difference between the Mean Daily Values of Vertical Intensity, on Two Consecutive Days, was within certain Limits.*

Difference between the Daily Means of Two Consecutive Days.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole Number of Cases in the Year.
En. Un. En. Un.													
Greater than 0·0000 and less than 0·0010	7	6	9	7	11	6	5	6	6	10	10	11	94
„ 0·0010 „ 0·0020	7	9	6	8	7	8	8	5	3	13	7	5	86
„ 0·0020 „ 0·0030	2	4	2	5	1	3	2	3	4		3	4	33
„ 0·0030 „ 0·0040	3	4	6		5	1	5	3	2		1	2	32
„ 0·0040 „ 0·0050	4			1	1	3	2	2	5	1	1		20
„ 0·0050 „ 0·0060	2			2		1	2	1	2		2	1	13
„ 0·0060 „ 0·0070			1				1	2					4
„ 0·0070 „ 0·0080		1		1		3						1	6
„ 0·0080 „ 0·0090												1	1
„ 0·0090 „ 0·0100													
„ 0·0100 „ 0·0110							1	•					1
„ 0·0110 „ 0·0120								1					1
„ 0·0120 „ 0·0150				•					1		1		2
„ 0·0150 „ 0·0200									1				1
„ 0·0200 „ 0·0350									1				1

It appears from this Table that there was only one instance in which the difference between the mean daily values of two consecutive days was greater than 0·02 English Units. There were 16 instances in which the difference was greater than 0·006 and less than 0·02 English Units. The difference generally dwindled between 0·006 and 0·001 English Units.

TABLE LXII.—*Showing the Greatest and Least Differences in each Month, between the Daily Mean Values of Vertical Intensity, on Two Consecutive Days.*

Months, 1857.	Difference of Daily Means.		Difference.	The Days between which the Difference was	
	Greatest.	Least.		Greatest.	Least.
	En. Un.	En. Un.	En. Un.	D.	D.
January	0·0057	0·0000	0·0057	9 & 11	4 & 5
February	·0074	·0001	·0073	9 & 10	16 & 17
March	·0061	·0001	·0060	16 & 17	9 & 11
April	·0073	·0001	·0072	17 & 19	6 & 7
May	·0042	·0000	·0042	28 & 29	8 & 10
June	·0074	·0001	·0073	19 & 21	4 & 5
July	·0100	·0001	·0099	26 & 27	7 & 8
August	·0110	·0002	·0108	21 & 23	23 & 24
September	·0310	·0005	·0305	25 & 27	1 & 2
October	·0046	·0001	·0045	15 & 18	13 & 14 / 14 & 15
November	·0124	·0000	·0124	26 & 27	27 & 28
December	·0088	·0001	·0087	29 & 30	15 & 16

It appears from this Table that the difference between the mean daily values of two consecutive days did not exceed 0·0310 English Units. The greatest difference occurred between the 25th and 27th September.

TABLE LXIII.—*Showing the Greatest and Least Mean Daily Values of Vertical Intensity, in each Month of the Year* 1857.

Months, 1857.	Mean Daily Values of Vertical Force.		Difference.	The Day on which the Mean was	
	Greatest.	Least.		Greatest.	Least.
	En. Un.	En. Un.	En. Un.	D.	D.
January	2·7700	2·7405	0·0295	1	22
February	·7616	·7457	·0159	28	3
March	·7722	·7620	·0102	27	2
April	·7867	·7645	·0292	20	1
May	·7822	·7680	·0142	27	8 & 10
June	·7952	·7792	·0160	11	30
July	·8176	·7804	·0372	28	2
August	·7979	·7670	·0309	2	25
September	·8067	·7568	·0499	27	23
October	·7930	·7674	·0256	1	30
November	·8080	·7826	·0254	27 & 28	8
December	·8065	·7686	·0379	1	31

It appears from this Table that the daily positions of Vertical Force were subject to less variation in the months of February, March, May, and June than in any other months of the year. It was subject to greatest variation in the months of September, December, and July. The extreme range between the mean daily values of the Vertical Force Magnet was 0·0771 English Units, being about 0·0100 English Units less than the range of last year.

TABLE LXIV.—*Mean Temperature of Air, confined within the Box of the Vertical Force Magnetometer, for each Day of Göttingen Mean Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	76°1	77°0		87°1	88°0	88°4	84°1		81°1	83°3	82°5	77°8
2	78·1	78·7	84°0	87·0		85·5	84·6	80°9	81·6	83·3	82·0	77·1
3		80·0	83·9	86·2	88·2	85·9	85·2	81·4	81·4		81·6	77·3
4	78·1	77·1	82·9		88·2	87·1			81·8	82·0	81·6	78·8
5	76·6	76·6	82·3	85·4	88·5	87·2	85·1	80·6		82·7	82·5	
6	75·2	77·4	82·1	85·0	87·6		84·8	80·7	81·8	83·1	83·5	78·1
7	76·5			84·6	87·3	88·0	85·2	81·2	81·6	83·6		77·0
8	77·7	77·7	82·3	84·1	87·8	88·3	85·3		80·9	83·8	84·9	76·7
9	78·2	77·9	82·2			87·7	86·0	80·7	80·4	84·0	84·0	76·5
10		79·5		83·5	88·6	88·3	86·2	80·4	80·5		82·9	76·0
11	80·0	80·1	82·2		88·5	86·0		80·8	81·3	84·1	82·0	76·1
12	79·7	80·9	82·9	84·4	88·5	87·1	86·9	81·6		83·0	82·0	
13	77·7	80·5	28·6	85·0	88·1		86·2	81·9	81·6	82·4	81·9	80·6
14	76·4			85·2	87·8	86·9	85·7		81·7	82·1		80·9
15	78·0	79·6	82·3	85·1	87·7	85·9	85·6		82·7	83·2	81·4	78·8
16	78·6	80·2	83·3	85·3		85·6	85·3	81·0	81·8		81·5	76·8
17		81·2	85·4	85·0	88·2	83·7	85·8	80·7	80·7		81·7	76·3
18	78·5	81·7	86·4		88·3	82·6		80·8	79·9	84·6	80·6	75·9
19	79·2	82·9	86·2	83·1	88·7	84·2	85·6	80·3		83·8	80·1	
20	80·9	82·6	85·2	82·0	88·7		85·1	80·1	80·1	83·9	79·6	77·2
21	81·6			84·0	88·7	86·5	84·6	80·4	80·1	84·6		77·8
22	80·9	81·6	85·7	84·9	88·8	83·6	84·2		81·4	84·3	78·7	77·1
23	79·0	81·7	86·1	84·5		82·5	84·9	81·9	81·6	83·8	78·8	76·8
24		82·8	85·9	84·9	88·8	82·7	83·7	81·9	81·2		78·5	
25	78.6	83·0	85·6		87·6	84·0		82·4	81·6	83·6	78·3	77·0
26	76·1	82·6	84·6	86·2	88·3	84·1	83·7	82·2		83·4	78·1	
27	74·0	83·1	84·6	86·9	87·5		80·8	82·3	82·3	83·3	78·1	76·5
28	74·2	83·0		86·8	88·5	84·6	80·3	82·4	82·5	83·1	77·9	76·9
29	74·9		85·9	87·3	89·1	84·5	80·0	82·5	82·7	82·8		76·4
30	75·4		85·9	87·8	89·1	84·4	81·1		82·9	82·5	78·1	76·6
31			86·1				80·3	82·6				76·8

TABLE LXV.—*Showing, for the Year* 1857, *the Hours of Göttingen Mean Time, at which the Value of Vertical Intensity, in Simple Hourly Observations of Vertical Force Magnetometer, in each Month, was at its Maximum and Minimum.*

Months, 1857.	The Value of Vertical Intensity.		Extreme Range.	The Time at which the Value of Vertical Intensity was	
	Greatest.	Least.		Greatest.	Least.
	En. Un.	En. Un.		D. H.	D. H.
January	2·7731	2·7368	0·0363	1 & 16	21 & 22
February	·7636	·7524	·0112	9 – 16	27 – 1
March	·7697	·7622	·0075	4 – 15 or 16	31 – 1
April	·7808	·7711	·0097	5 – 14	30 – 21
May	·7767	·7710	·0057	1 – 15	30 – 2
June	·7912	·7750	·0162	2 – 14	30 – 22
July	·8206	·7779	·0427	28 Noon	9 – 20
August	·8029	·7602	·0427	2 – 14	24 – 2
September	·8081	·7522	·0559	27 – 15	23 – 1
October	·7854	·7677	·0177	15 – 19	28 – 15
November	·8094	·7777	·0317	30 – 16	2 – 23
December	·8029	·7608	·0421	17 – 16	31 – 23

It appears from this Table that the time of maximum Vertical Force varies between 19h. and noon, while the time of the minimum force occurs between 15h. and 16h. The extreme difference between the greatest and least values of Vertical Force, in simple hourly observations, was 0·0838, being about 0·0097 less than the difference of the preceding year.

TABLE LXVI.—*Showing, for each Month, the Mean Value of Absolute Vertical Intensity, and its Periodic Changes from the Mean of the Year, as obtained from Vertical Force Magnetometer.*

Months, 1857.	Mean Value of Absolute Vertical Intensity.	Difference from the Mean of the Year.	For Seasons.	
	En. Un.	En. Un.		En. Un.
January	2·7505	– 0·0274		
February	·7527	– ·0252	Mean of {Jan. Feb. March, Oct. Nov. Dec.} or Winter	2·7724
March	·7667	– ·0112		
April	·7745	– ·0034		
May	·7740	– ·0039	Mean of {April, May, June, July, Aug. Sept.} or Summer	2·7834
June	·7866	·0087		
July	·7982	·0203	Mean of the Year	2·7779
August	·7818	·0039		
September	·7857	·0078	Greatest monthly mean, in July	2·7982
October	·7810	·0031	Least monthly mean, in January	2·7505
November	·7906	·0127		
December	·7928	·0149	Difference	0·0477

It appears from this Table that the mean Vertical Force of the Earth was gradually increasing from January to July. It was a little low in August, September, and October, but afterwards slowly rose till the close of the year.

TABLE LXVII.—*Showing, for each Month, the Mean Temperature of Air within the Box of the Vertical Force Magnetometer, and its Periodic Changes from the Mean of the Year.*

Months, 1857.	Mean Temperature of Air within the Box of the Vertical Force.	Difference from the Mean of the Year.	FOR SEASONS.	
January	77°7	− 4°8		
February	80·2	− 2·1	Mean of { Jan. Feb. Mar. / Oct. Nov. Dec. } or Winter.....	80°7
March	84·3	1·8		
April	85·3	2·8		
May.....	88·3	5·8	Mean of { April, May, June, / July, Aug. Sept. } or Summer....	84·4
June	85·6	3·1		
July.....	84·3	1·8	Mean of the year.....	82·5
August.....	81·3	− 1·2		
September	81·5	− 1·0	Greatest monthly mean, in May	88·3
October	83·4	0·9	Least monthly mean, in December.....	77·5
November	80·9	− 1·6		
December	77·5	− 5·0	Difference.....	10·8

TABLE LXVIII.—*Daily Range of Vertical Intensity, for each Day of Göttingen Mean Time, as obtained from Scale Readings of Vertical Force Magnetometer.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.
1	0·0127	0·0117		0·0095	0·0055	0·0104	0·0117		0·0159	0·0025	0·0011	0·0054
2	·0139	·0099	0·0090	·0117		·0120	·0092	0·0135	·0088	·0022	·0082	·0075
3		·0129	·0057	·0092	·0088	·0069	·0102	·0059	·0098		·0137	·0060
4	·0092	·0143	·0103		·0087	·0074			·0068	·0006	·0083	·0101
5	·0145	·0102	·0067	·0090	·0072	·0050	·0086	·0074		·0017	·0052	
6	·0118	·0097	·0086	·0090	·0110		·0096	·0133	·0049	·0017	·0063	·0086
7	·0114			·0087	·0176	·0094	·0092	·0084	·0050	·0018		·0077
8	·0072	·0105	·0075	·0084	·0085	·0108	·0090		·0045	·0030	·0078	·0058
9	·0110	·0262	·0080			·0080	·0141	·0071	·0041	·0034	·0069	·0081
10		·0130		·0096	·0132	·0072	·0127	·0100	·0048		·0054	·0069
11	·0090	·0110	·0083		·0084	·0028		·0176	·0034	·0017	·0074	·0066
12	·0066	·0097	·0087	·0088	·0098	·0098	·0131	·0202		·0024	·0072	
13	·0090	·0093	·0100	·0072	·0117		·0109	·0156	·0025	·0016	·0058	·0048
14	·0087			·0117	·0121	·0096	·0098		·0024	·0026		·0045
15	·0103	·0113	·0092	·0083	·0083	·0082	·0105		·0065	·0017	·0095	·0062
16	·0117	·0117	·0091	·0076		·0067	·0093	·0122	·0028	·0033	·0078	·0082
17		·0098	·0094	·0093	·0093	·0077	·0064	·0083	·0012		·0107	·0105
18	·0109	·0143	·0103		·0103	·0122		·0107	·0029		·0070	·0074
19	·0110	·0099	·0102	·0096	·0082	·0111	·0093	·0105		·0023	·0066	
20	·0088	·0088	·0098	·0121	·0136		·0070	·0079	·0056	·0020	·0083	·0073
21	·0101			·0059	·0110	·0082	·0081	·0176	·0102	·0016		·0096
22	·0090	·0117	·0057	·0054	·0121	·0130	·0106		·0083	·0014	·0100	·0032
23	·0112	·0092	·0143	·0068		·0087	·0126	·0112	·0080	·0018	·0071	·0044
24		·0078	·0090	·0095	·0095	·0110	·0148	·0150	·0094		·0057	
25	·0097	·0090	·0106		·0103	·0117		·0160	·0295	·0020	·0068	·0031
26	·0107	·0060	·0091	·0119	·0086	·0117	·0097	·0172		·0019	·0203	
27	·0125	·0101	·0087	·0099	·0105		·0090	·0140	·0045	·0018	·0051	·0044
28	·0110	·0108		·0079	·0111	·0100	·0089	·0148	·0028	·0020	·0045	·0031
29	·0111		·0073	·0085	·0079	·0118	·0092	·0135	·0016	·0022		·0033
30	·0106		·0077	·0080	·0114	·0099	·0148		·0073	·0020	·0056	·0121
31			·0071				·0110	·0146				·0138

TABLE LXIX.—*Showing the Number of Instances in which the Range of Vertical Intensity was within certain Limits.*

Daily Range of Vertical Intensity in 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole Number of Cases in the Year.
En. Un. En. Un.													
Greater than 0·001 and less than 0·003						1			7	21	1		30
„ „ ·003 „ ·005									6	3	1	8	18
„ „ ·005 „ ·007	1	1	3	3	1	3	1	1	4		10	6	34
„ „ ·007 „ ·009	3	2	9	9	9	7	4	5	4		9	7	68
„ „ ·009 „ ·011	10	12	12	9	6	7	14	3	3		3	3	82
„ „ ·011 „ ·013	10	6		4	7	7	4	2				1	41
„ „ ·013 „ ·015	2	3	1		2	1	4	6			1	1	21
„ „ ·015 „ ·017								3	1				4
„ „ ·017 „ ·019					1			3					4
„ „ ·019 „ ·021								1			1		2
„ „ ·021 „ ·023													
„ „ ·023 „ ·025													
„ „ ·025 „ ·027		1											1
„ „ ·027 „ ·029													
„ „ ·029 „ ·030									1				1

It appears from the last column of this Table that there were only two instances in which the daily range of Vertical Force was greater than 0·021 and less than 0·031 English Units. There were ten instances in which the range was greater than 0·015 and less than 0·021 English Units. The daily range generally dwindled between 0·005 and 0·015 English Units.

TABLE LXX.—*Showing the Greatest and Least Range of Vertical Intensity, in each Month of the Year* 1857.

Months, 1857.	Daily Range of Vertical Intensity.		Difference.	The Day on which the Range of Vertical Intensity was	
	Greatest.	Least.		Greatest.	Least.
	En. Un.	En. Un.	En. Un.	D.	D.
January	0·0145	0·0066	0·0079	5	12
February	·0262	·0060	·0202	9	26
March	·0143	·0057	·0086	23	3 & 22
April	·0121	·0054	·0067	20	22
May	·0176	·0055	·0121	7	1
June	·0130	·0028	·0102	22	11
July	·0148	·0064	·0084	24 & 30	17
August	·0202	·0059	·0143	12	3
September	·0295	·0012	·0283	25	17
October	·0034	·0006	·0028	9	4
November	·0203	·0011	·0192	26	1
December	·0138	·0031	·0107	31	25 & 28

The extreme difference between the daily ranges of Vertical Force was 0·0289 English Units, being 0·0011 lower than the difference of the last year. The daily range in the months of September, October, and November was smaller than the ranges of other months.

TABLE LXXI.—*Showing the Mean Monthly Range of Vertical Intensity.*

Months, 1857.	Mean Monthly Range of Vertical Force.	FOR SEASONS.
	En. Un.	
January	0·0105	
February	·0112	
March	·0088	Mean of { Jan. Feb. Mar. / Oct. Nov. Dec. } or Winter .. 0·0078
April	·0089	
May	·0102	
June	·0093	Mean of { Apr. May, June, / July, Aug. Sept. } or Summer .. 0·0097
July	·0104	
August	·0126	Annual Mean ..... 0·0088
September	·0067	
October	·0020	
November	·0076	
December	·0069	

The mean ranges of Vertical Force were smaller in the last four months than all the other months of this year, showing that the Vertical Force Magnet had become more sluggish in its movements after the month of August than in the first half of this year.

TABLE LXXII.—*Mean Value of Absolute Vertical Intensity, corrected for Instrumental Errors, in each Month, for each Hour of Göttingen Mean and Bombay Civil Time.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	H. M.
Noon.	2·7483	2·7499	2·7643	2·7736	2·7734	2·7858	2·7967	2·7798	2·7850	2·7815	2·7874	2·7911	4 12 P.M.
1	·7480	·7496	·7631	·7721	·7720	·7849	·7956	·7790	·7841	·7807	·7871	·7915	5 12 „
2	·7484	·7498	·7637	·7719	·7710	·7842	·7951	·7782	·7841	·7804	·7878	·7922	6 12 „
3	·7491	·7503	·7639	·7722	·7704	·7848	·7949	·7788	·7843	·7804	·7890	·7923	7 12 „
4	·7497	·7511	·7644	·7730	·7715	·7850	·7955	·7797	·7845	·7803	·7895	·7924	8 12 „
5	·7504	·7515	·7658	·7740	·7725	·7851	·7962	·7807	·7846	·7804	·7897	·7923	9 12 „
6	·7506	·7521	·7660	·7744	·7733	·7862	·7970	·7816	·7849	·7805	·7907	·7925	10 12 „
7	·7505	·7527	·7668	·7747	·7739	·7868	·7973	·7825	·7853	·7806	·7909	·7929	11 12 „
8	·7510	·7533	·7672	·7749	·7745	·7872	·7983	·7831	·7854	·7806	·7911	·7929	Midnight.
9	·7515	·7532	·7678	·7755	·7753	·7878	·7988	·7835	·7857	·7807	·7914	·7931	1 12 A.M.
10	·7517	·7534	·7685	·7762	·7758	·7879	·7989	·7839	·7858	·7807	·7917	·7932	2 12 „
11	·7522	·7536	·7688	·7764	·7758	·7882	·7999	·7844	·7860	·7807	·7917	·7935	3 12 „
12	·7524	·7544	·7692	·7769	·7762	·7889	·8004	·7850	·7865	·7809	·7923	·7937	4 12 „
13	·7528	·7550	·7693	·7773	·7771	·7895	·8016	·7858	·7866	·7810	·7926	·7940	5 12 „
14	·7534	·7551	·7698	·7787	·7788	·7911	·8028	·7874	·7873	·7810	·7929	·7942	6 12 „
15	·7540	·7562	·7705	·7786	·7787	·7907	·8026	·7871	·7876	·7811	·7936	·7953	7 12 „
16	·7553	·7581	·7698	·7767	·7764	·7887	·8013	·7848	·7869	·7811	·7935	·7959	8 12 „
17	·7546	·7574	·7689	·7741	·7731	·7869	·7997	·7823	·7862	·7814	·7922	·7951	9 12 „
18	·7516	·7557	·7667	·7721	·7716	·7854	·7976	·7806	·7857	·7815	·7905	·7944	10 12 „
19	·7480	·7528	·7654	·7716	·7709	·7842	·7968	·7792	·7854	·7816	·7896	·7916	11 12 „
20	·7473	·7512	·7654	·7719	·7715	·7843	·7971	·7788	·7861	·7817	·7899	·7915	Noon.
21	·7470	·7503	·7658	·7728	·7730	·7850	·7976	·7789	·7857	·7818	·7904	·7913	1 12 P.M.
22	·7467	·7494	·7659	·7737	·7743	·7849	·7975	·7795	·7863	·7819	·7892	·7905	2 12 „
23	·7472	·7488	·7653	·7739	·7740	·7851	·7974	·7791	·7863	·7818	·7887	·7902	3 12 „

TABLE LXXIII.—*Mean Temperature of Air within the Box of the Vertical Force Magnetometer, in each Month, for each Hour of Göttingen Mean and Bombay Civil Time.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
													H. M.
Noon.	80°1	83°4	87°2	87°8	90°7	87°2	85°9	82°3	82°8	85°8	83°6	80°4	4 12 P.M
1	79·6	83·2	86·9	87·3	90·3	87·1	85·6	82·2	82·7	85·1	83·0	79·9	5 12 „
2	79·5	82·3	86·2	86·8	89·8	86·7	85·4	81·9	82·3	84·6	82·5	79·3	6 12 „
3	78·7	81·8	85·7	86·2	89·2	86·3	85·1	81·7	82·0	84·2	82·0	78·8	7 12 „
4	78·4	81·3	85·3	85·8	88·8	86·1	84·8	81·5	81·8	83·8	81·6	78·4	8 12 „
5	78·1	80·9	84·8	85·5	88·4	85·8	84·5	81·2	81·6	83·5	81·2	78·1	9 12 „
6	77·9	80·5	84·5	85·2	88·1	85·5	84·3	81·1	81·4	83·3	80·8	77·5	10 12 „
7	77·7	80·2	84·1	85·0	87·8	85·3	84·1	81·0	81·2	83·1	80·4	77·2	11 12 „
8	77·5	79·8	83·6	84·7	87·6	85·0	83·9	80·9	81·1	82·9	80·2	76·8	Midnight.
9	77·1	79·6	83·3	84·3	87·4	84·9	83·7	80·9	80·9	82·6	80·0	76·5	1 12 A.M.
10	76·8	79·3	83·0	84·0	87·3	84·8	83·5	80·8	80·7	82·4	79·7	76·2	2 12 „
11	76·6	79·0	82·7	83·8	87·1	84·6	83·4	80·7	80·6	82·2	79·5	75·9	3 12 „
12	76·3	78·8	82·5	83·5	86·9	84·4	83·2	80·6	80·4	82·1	79·3	75·7	4 12 „
13	76·1	78·4	82·3	83·4	86·7	84·4	83·2	80·6	80·4	81·8	79·1	75·5	5 12 „
14	75·8	78·0	82·0	83·1	86·4	84·3	83·1	80·6	80·4	81·5	78·8	75·3	6 12 „
15	75·6	77·7	81·8	83·1	86·6	84·4	83·0	80·6	80·4	81·4	78·5	75·0	7 12 „
16	75·5	77·8	82·0	83·5	86·9	84·6	83·2	80·7	80·5	81·5	78·6	75·3	8 12 „
17	76·0	78·3	82·5	84·2	87·4	84·9	83·6	80·7	80·8	82·2	79·1	75·6	9 12 „
18	76·8	79·1	83·4	84·9	87·9	85·3	84·0	81·0	81·3	82·9	79·9	76·5	10 12 „
19	77·6	80·1	84·3	85·6	88·6	85·9	84·5	81·4	81·8	83·6	81·0	77·5	11 12 „
20	78·5	81·1	85·1	86·3	89·1	86·4	84·9	81·8	82·3	84·3	81·9	78·6	Noon.
21	79·1	82·0	85·9	86·8	89·8	86·8	85·0	82·3	82·3	84·8	82·8	79·5	1 12 P.M.
22	79·6	82·8	86·5	87·3	90·3	87·0	85·4	82·5	82·7	85·4	83·5	80·2	2 12 „
23	80·1	83·5	87·0	87·8	90·5	87·1	85·5	82·5	82·8	85·8	83·8	80·5	3 12 „

TABLE LXXIV.—*Showing, for the Year* 1857, *the Hours of Göttingen Mean Solar Time, about which the Mean Value of Absolute Vertical Intensity, in each Month, was at its Diurnal Maxima and Minima.*

Months, 1857.	The Mean Hourly Values of Absolute Vertical Intensity.				Mean Diurnal Range.	The Time at which the Mean Hourly Value of Vertical Intensity was at its			
	Evening Maximum.	Evening Minimum.	Morning Maximum.	Mid-day Minimum.		Evening Maximum.	Evening Minimum.	Morning Maximum.	Mid-day Minimum.
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	H	H	H	H
January	2·7483	2·7480	2·7553	2·7467	0·0086	24	1	16	22
February	·7499	·7496	·7581	·7488	·0093	24	1	16	23
March	·7659	·7631	·7705	·7654	·0074	22	1	15	20
April	·7739	·7719	·7787	·7716	·0071	23	2	14	19
May	·7743	·7704	·7787	·7709	·0083	22	3	15	19
June	·7858	·7842	·7911	·7842	·0069	24	2	14	19
July	·7976	·7949	·8028	·7968	·0079	21	3	14	19
August	·7798	·7782	·7874	·7788	·0092	24	2	14	20
September	·7863	·7841	·7876	·7854	·0035	23	2	15	19
October	·7819	·7803			·0016	22	4		
November	·7904	·7871	·7936	·7896	·0065	21	1	15	19
December	·7924	·7923	·7959	·7902	·0057	28	5	16	23

It appears from this Table that the marked end of the Vertical Force Magnet during this year had reached its extreme at about 15h. or 16h., or in the morning. The times of maxima and minima were not the same throughout the year. The movements consisted generally of two maxima and two minima; but in October only one maximum and minimum were observed in the diurnal movements of Vertical Force. The interval between the evening minimum and the morning maximum was about thirteen hours.

TABLE LXXV.—*Showing, for the Year* 1857, *the Hours of Göttingen Mean Time, at which the Mean Temperature of Air within the Box of Vertical Force, in each Month, was at its Maximum and Minimum.*

Months, 1857.	The Mean Hourly Temperature of Air within the Box of Vertical Force.		Mean Diurnal Range.	The Time at which the Mean Hourly Temperature of Air was at its	
	Maximum.	Minimum.		Maximum.	Minimum.
				H.	H.
January	80°1	75°5	4°6	23	16
February	83·5	77·7	5·8	23	15
March	87·2	81·8	5·4	24	15
April	87·8	83·1	4·7	24	14.
May	90·7	86·4	4·3	24	14
June	87·2	84·3	2·9	24	14
July	85·9	83·0	2·9	24	15
August	82·5	80·6	1·9	23	15
September	82·8	80·4	2·4	24	15
October	85·8	81·4	4·4	23	15
November	83·8	78·5	5·3	23	15
December	80·5	75·0	5·5	23	15

TABLE LXXVI.—*Showing, for the Year* 1857, *the Mean Value of Absolute Vertical Intensity, corrected for Instrumental Errors for each Hour of Göttingen Mean Time; and also its Diurnal Changes from the Mean of the Year.*

Göttingen Mean Time.	Bombay Civil Time.	Mean Value of Vertical Intensity.	Difference from the Mean of the Whole.
	H. M.	En. Un.	En. Un.
Noon	4 12 P. M.	2·7765	−0·0014
1	5 12 „	·7756	− ·0023
2	6 12 „	·7756	− ·0023
3	7 12 „	·7759	− ·0020
4	8 12 „	·7764	− ·0015
5	9 12 „	·7769	− ·0010
6	10 12 „	·7775	− ·0004
7	11 12 „	·7780	·0001
8	0 12 A. M.	·7783	·0004
9	1 12 „	·7787	·0008
10	2 12 „	·7790	·0011
11	3 12 „	·7793	·0014
12	4 12 „	·7797	·0018
13	5 12 „	·7802	·0023
14	6 12 „	·7810	·0031
15	7 12 „	·7813	·0034
16	8 12 „	·7807	·0028
17	9 12 „	·7793	·0014
18	10 12 „	·7778	− ·0001
19	11 12 „	·7764	− ·0015
20	0 12 P. M.	·7764	− ·0015
21	1 12 „	·7766	− ·0013
22	2 12 „	·7766	− ·0013
23	3 12 „	·7765	− ·0014

FOR DAY AND NIGHT.

	En. Un.
Mean of {2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,} or Night	2·7780
Mean of {14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 0, 1,} or Day	2·7779
Mean.....	2·7779

TIMES OF MEAN MAXIMUM AND MINIMUM.

	G.M.T.	B.C.T.
A Minimum at about	2 or	6 P.M.
A Maximum at about	15 or	7 A.M.
A Minimum at about	20 or	Noon.
A Maximum at about	22 or	2 P.M.

If the mean vertical intensity of the earth is to be determined from a single observation taken daily, the time indicated as best by this table is 11 P. M., or 10 A. M. The combinations of observations will give a more accurate mean than a single observation.

TABLE LXXVII.—*Showing, for the Year* 1857, *the Mean Temperature of Air within the Box of Vertical Force Magnetometer, for each Hour of Göttingen Mean Time; and also its Diurnal Changes from the Mean of the Year.*

Göttingen Mean Time.	Bombay Civil Time.	Mean Temperature of Air within the Box of Vertical Force.	Difference from the Mean of the Whole.
	H. M.		
Noon.	4 12 P. M.	84°8	2°3
1	5 12 „	84·4	1·9
2	6 12 „	83·9	1·4
3	7 12 „	83·5	1·0
4	8 12 „	83·1	0·6
5	9 12 „	82·8	0·3
6	10 12 „	82·5	0·0
7	11 12 „	82·3	− 0·2
8	0 12 A. M.	82·0	− 0·5
9	1 12 „	81·8	− 0·7
10	2 12 „	81·5	− 1·0
11	3 12 „	81·3	− 1·2
12	4 12 „	81·1	− 1·4
13	5 12 „	81·0	− 1·5
14	6 12 „	80·8	− 1·7
15	7 12 „	80·7	− 1·8
16	8 12 „	80·8	− 1·7
17	9 12 „	81·3	− 1·2
18	10 12 „	81·9	− 0·6
19	11 12 „	82·7	0·2
20	0 12 P. M.	83·4	0·9
21	1 12 „	83·9	1·4
22	2 12 „	84·4	1·9
23	3 12 „	84·7	2·2

FOR DAY AND NIGHT.

Mean of {2, 3, 4, 5, 6, 7, / 8, 9, 10, 11, 12, 13,} or Night.. 82°2

Mean of {14, 15, 16, 17, 18, 19, / 20, 21, 22, 23, 0, 1,} or Day. 82·8

Mean..... 82·5

TIMES OF MEAN MAXIMUM AND MINIMUM.

	G.M.T.	B.C.T.
A Minimum at about	Noon *or*	4 P.M.
A Maximum at about	15 or	7 A.M.

TABLE LXXVIII.—*Excess of the Mean Hourly Values of Vertical Force above the Monthly Mean Value.*

Göttingen Mean Solar Time.	MONTHS 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	H. M.
Noon.	-0·0022	-0·0028	-0·0024	-0·0009	-0·0006	-0·0008	-0·0015	+0·0020	-0·0007	0·0005	-0·0032	-0·0017	4 12 P. M.
1	− ·0025	− ·0031	− ·0036	− ·0024	− ·0020	− ·0017	− ·0026	− ·0028	− ·0016	− ·0003	− ·0035	− ·0013	5 12 „
2	− ·0021	− ·0029	− ·0030	− ·0026	− ·0030	− ·0024	− ·0031	− ·0036	− ·0016	− ·0006	− ·0028	− ·0006	6 12 „
3	− ·0014	− ·0024	− ·0028	− ·0023	− ·0036	− ·0018	− ·0033	− ·0030	− ·0014	− ·0006	− ·0016	− ·0005	7 12 „
4	− ·0008	− ·0016	− ·0023	− ·0015	− ·0025	− ·0016	− ·0027	− ·0021	− ·0012	− ·0007	− ·0011	− ·0004	8 12 „
5	− ·0001	− ·0012	− ·0009	− ·0005	− ·0015	− ·0015	− ·0020	− ·0011	− ·0011	− ·0006	− ·0009	− ·0005	9 12 „
6	·0001	− ·0006	− ·0007	− ·0001	− ·0007	− ·0004	− ·0012	− ·0002	− ·0008	− ·0005	·0001	− ·0003	10 12 „
7	·0000	·0000	·0001	·0002	− ·0001	·0002	− ·0009	·0007	− ·0004	− ·0004	·0003	·0001	11 12 „
8	·0005	·0006	·0005	·0004	·0005	·0006	·0001	·0013	− ·0003	− ·0004	·0005	·0001	Midnight.
9	·0010	·0005	·0011	·0010	·0013	·0012	·0006	·0017	·0000	− ·0003	·0008	·0002	1 12 A. M.
10	·0012	·0007	·0018	·0017	·0018	·0013	·0007	·0021	·0001	− ·0003	·0011	.0004	2 12 „
11	·0017	·0009	·0021	·0019	·0018	·0016	·0017	·0026	·0003	− ·0003	·0011	·0007	3 12 „
12	·0019	·0017	·0025	·0024	·0022	·0023	·0022	·0032	·0008	− ·0001	·0017	·0009	4 12 „
13	·0023	·0023	·0026	·0028	·0031	·0029	·0034	·0040	·0009	·0000	·0020	·0012	5 12 „
14	·0029	·0024	·0031	·0042	·0048	·0045	·0046	·0056	·0016	·0000	·0023	·0014	6 12 „
15	·0035	·0035	·0038	·0041	·0047	·0041	·0044	·0053	·0019	·0001	·0030	·0025	7 12 „
16	·0043	·0054	·0031	·0022	·0024	·0021	·0031	·0030	·0012	·0001	·0029	·0031	8 12 „
17	·0041	·0047	·0022	− ·0004	− ·0009	·0003	·0015	·0005	·0005	·0004	·0016	·0023	9 12 „
18	·0011	·0030	·0000	− ·0024	− ·0024	− ·0012	·0006	− ·0012	·0000	·0005	− ·0001	·0016	10 12 „
19	− ·0025	·0001	− ·0013	− ·0029	− ·0031	− ·0024	− ·0014	− ·0026	− ·0003	·0006	− ·0010	− ·0012	11 12 „
20	− ·0032	− ·0015	− ·0013	− ·0026	− ·0025	− .0023	− ·0011	− ·0030	·0004	·0007	− ·0007	− ·0013	Noon.
21	− ·0035	− ·0024	− ·0009	− .0017	− ·0010	− ·0016	− ·0006	− ·0029	·0000	·0008	− ·0002	− ·0015	1 12 P. M.
22	− ·0038	− ·0033	− ·0008	− ·0008	− ·0003	− ·0017	− ·0007	− ·0023	·0006	·0009	− ·0004	− ·0023	2 12 „
23	− ·0033	− ·0039	− ·0014	− ·0006	·0000	− ·0015	− ·0008	− ·0027	·0006	·0008	− ·0019	− ·0026	3 12 „

TABLE LXXIX.—*Excess of the Mean Hourly Temperature of Air within the Box of the Vertical Force Magnetometer above the Monthly Mean.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Noon.	2·4	3·1	2·9	2·6	2·4	1·6	1·6	1·0	1·4	2·4	2·8	2·9	4 12 P.M.
1	1·9	2·8	2·6	2·1	2·0	1·5	1·3	0·9	1·2	1·7	2·1	2·4	5 12 „
2	1·8	2·0	2·0	1·5	1·5	1·1	1·1	0·6	0·9	1·3	1·6	1·8	6 12 „
3	1·0	1·4	1·4	0·9	0·9	0·7	0·8	0·4	0·5	0·9	1·1	1·3	7 12 „
4	0·7	1·0	1·0	0·5	0·5	0·5	0·5	0·2	0·3	0·4	0·8	0·9	8 12 „
5	0·4	0·5	0·6	0·2	0·1	0·2	0·2	-0·1	0·1	0·2	0·3	0·6	9 12 „
6	0·2	0·1	0·2	-0·1	-0·2	-0·1	0·0	-0·2	-0·1	-0·1	-0·1	0·0	10 12 „
7	0·0	-0·2	-0·2	-0·3	-0·5	-0·3	-0·2	-0·3	-0·2	-0·3	-0·5	-0·3	11 12 „
8	-0·2	-0·6	-0·7	-0·6	-0·8	-0·6	-0·4	-0·4	-0·4	-0·5	-0·7	-0·7	Midnight.
9	-0·6	-0·8	-1·0	-1·0	-0·9	-0·7	-0·6	-0·4	-0·7	-0·8	-0·9	-1·0	1 12 A.M.
10	-0·9	-1·1	-1·3	-1·2	-1·1	-0·8	-0·8	-0·5	-0·8	-0·9	-1·1	-1·3	2 12 „
11	-1·1	-1·4	-1·5	-1·5	-1·2	-1·0	-0·9	-0·6	-0·9	-1·1	-1·4	-1·6	3 12 „
12	-1·4	-1·6	-1·7	-1·7	-1·4	-1·2	-1·1	-0·7	-1·0	-1·3	-1·6	-1·8	4 12 „
13	-1·6	-2·0	-2·0	-1·9	-1·6	-1·2	-1·1	-0·7	-1·1	-1·6	-1·8	-2·0	5 12 „
14	-1·9	-2·3	-2·3	-2·2	-1·9	-1·3	-1·2	-0·7	-1·1	-1·9	-2·1	-2·2	6 12 „
15	-2·1	-2·7	-2·5	-2·1	-1·8	-1·2	-1·3	-0·7	-1·1	-1·0	-2·4	-2·5	7 12 „
16	-2·2	-2·6	-2·3	-1·8	-1·5	-1·1	-1·1	-0·6	-1·0	-1·8	-2·2	-2·2	8 12 „
17	-1·7	-2·1	-1·8	-1·1	-0·9	-0·7	-0·7	-0·6	-0·6	-1·2	-1·8	-1·9	9 12 „
18	-0·9	-1·3	-0·9	-0·3	-0·4	-0·3	-0·3	-0·3	-0·2	-0·5	-1·0	-1·0	10 12 „
19	-0·1	-0·3	0·0	0·3	0·2	0·3	0·2	0·1	0·3	0·2	0·1	0·0	11 12 „
20	0·8	0·7	0·9	1·0	0·8	0·8	0·6	0·5	0·8	0·9	1·0	1·1	Noon.
21	1·4	1·7	1·6	1·5	1·5	1·2	0·7	1·0	0·9	1·4	1·9	2·0	1 12 P.M.
22	1·9	2·5	2·2	2·1	1·9	1·4	1·1	1·2	1·2	2·0	2·6	2·7	2 12 „
23	2·4	3·1	2·7	2·5	2·2	1·5	1·2	1·2	1·3	2·4	2·9	3·0	3 12 „

TABLE LXXX.—*Showing the Hours in each Month, deduced from the Hourly Means, during which the Vertical Force Magnet was on each side of the Mean Position for that Month.*

Months, 1857.	The marked end of the Magnet was above the Mean Position	Length of Time the marked end was above the Mean Position.	The marked end of the Magnet was below the Mean Position	Length of Time the marked end of the Magnet was below the Mean Position.
January	Between 6h. and 18h.	13	Between 19h. and 5h.	11
February	Between 7h. and 19h.	13	Between 20h. and 6h.	11
March	Between 7h. and 18h.	12	Between 19h. and 6h.	12
April	Between 7h. and 16h.	10	Between 17h. and 6h.	14
May	Between 8h. and 16h.	9	Between 17h. and 7h.	15
June	Between 7h. and 17h.	11	Between 18h. and 6h.	13
July	Between 8h. and 17h.	10	Between 18h. and 7h.	14
August	Between 7h. and 17h.	11	Between 18h. and 6h.	13
September	Between 9h. and 23h.	15	Between Noon and 8h.	9
October	Between 13h. and 24h.	12	Between 1h. and 12h.	12
November	Between 6h. and 17h.	12	Between 18h. and 5h.	12
December	Between 7h. and 18h.	12	Between 19h. and 6h.	12

It appears from this Table that the Vertical Force Magnet passed its mean position twice every day. The time at which the Magnet passes the mean position occurs at about 18h. and 7h. Göttingen time. In September and October the times were changed, no doubt from the irregular movements of the Magnet, which had become more sluggish in its movements by the atmospheric damp.

TABLE LXXXI.—*Showing the Differences in the Mean Hourly Values of Vertical Intensity, between every pair of Consecutive Hours in each Month, estimated positive when the Vertical Force was greater at the latter Hour.*

Time.	MONTHS, 1857.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Between	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un
Noon and 1	-0·0003	-0·0003	-0·0012	-0·0015	-0·0014	-0·0009	-0·0011	-0·0008	-0·0009	-0·0008	-0·0003	0·0004
1 and 2	·0004	·0002	·0006	- ·0002	- ·0010	- ·0007	- ·0005	- ·0008	·0000	- ·0003	·0007	·0007
2 and 3	·0007	·0005	·0002	·0003	- ·0006	·0006	- ·0002	·0006	·0002	·0000	·0012	·0001
3 and 4	·0006	·0008	·0005	·0008	·0011	·0002	·0006	·0009	·0002	- ·0001	·0005	·0001
4 and 5	·0007	·0004	·0014	·0010	·0010	·0001	·0007	·0010	·0001	·0001	·0002	- ·0001
5 and 6	·0002	·0006	·0002	·0004	·0008	·0011	·0008	·0009	·0003	·0001	·0010	·0002
6 and 7	- ·0001	·0006	·0008	·0003	·0006	·0006	·0003	·0009	·0004	·0001	·0002	·0004
7 and 8	·0005	·0006	·0004	·0002	·0006	·0004	·0010	·0006	·0001	·0000	·0002	·0000
8 and 9	·0005	- ·0001	·0006	·0006	·0008	·0006	·0005	·0004	·0003	·0001	·0003	·0002
9 and 10	·0002	·0002	·0007	·0007	·0005	·0001	·0001	·0004	·0001	·0000	·0003	·0001
10 and 11	·0005	·0002	·0003	·0002	·0000	·0003	·0010	·0005	·0002	·0000	·0000	·0003
11 and 12	·0002	·0008	·0004	·0005	·0004	·0007	·0005	·0006	·0005	·0002	·0006	·0002
12 and 13	·0004	·0006	·0001	·0004	·0009	·0006	·0012	·0008	·0001	·0001	·0003	·0003
13 and 14	·0006	·0001	·0005	·0013	·0017	·0016	·0012	·0016	·0007	·0000	·0003	·0002
14 and 15	·0006	·0011	·0007	- ·0001	- ·0001	- ·0004	- ·0002	- ·0003	·0003	·0001	·0001	·0011
15 and 16	·0013	·0019	- ·0007	- ·0019	- ·0023	- ·0020	- ·0013	- ·0023	- ·0007	·0000	·0005	·0006
16 and 17	- ·0007	- ·0007	- ·0009	- ·0026	- ·0033	- ·0018	- ·0016	- ·0025	- ·0007	·0003	- ·0013	- ·0008
17 and 18	- ·0036	- ·0017	- ·0022	- ·0020	- ·0015	- ·0015	- ·0021	- ·0017	- ·0007	·0001	- ·0017	- ·0007
18 and 19	- ·0036	- ·0029	- ·0013	- ·0005	- ·0007	- ·0012	- ·0008	- ·0014	- ·0003	·0001	- ·0009	- ·0028
19 and 20	- ·0007	- ·0016	·0000	·0003	·0006	·0001	·0003	- ·0004	·0007	·0001	·0003	- ·0001
20 and 21	- ·0003	- ·0009	·0004	·0009	·0015	·0007	·0005	·0001	- ·0004	·0001	·0005	- ·0002
21 and 22	- ·0003	- ·0009	·0001	·0009	·0013	- ·0001	- ·0001	·0006	·0006	·0001	- ·0012	- ·0008
22 and 23	·0005	- ·0006	- ·0006	·0002	- ·0003	- ·0002	- ·0001	- ·0004	·0000	- ·0001	- ·0005	- ·0003
23 and Noon	·0011	·0011	- ·0010	- ·0003	- ·0006	- ·0007	- ·0007	·0007	- ·0013	- ·0003	- ·0013	·0009

TABLE LXXXII.—*This Table is formed by taking the Sums and Means of the Numbers in the preceding Table, without regard to their Signs.*

Between what Hours.	Mean Amount of Difference in Summer.	Character of Changes in Summer.	Mean Amount of Difference in Winter.	Character of Changes in Winter.
Between	En. Un.		En. Un.	
Noon and 1	0·0011	A fall generally observed.	0·0006	Fall, except in December.
1 and 2	·0005	,, ,, ,,	·0005	Rise, except in October.
2 and 3	·0004	Variable.	·0004	A rise generally observed.
3 and 4	·0006	A rise generally observed.	·0004	Rise, except in October.
4 and 5	·0007	,, ,, ,,	·0005	Rise, except in December.
5 and 6	·0007	,, ,, ,,	·0004	A rise generally observed.
6 and 7	·0005	,, ,, ,,	·0004	Rise, except in January.
7 and 8	·0005	,, ,, ,,	·0004	A rise generally observed.
8 and 9	·0005	,, ,, ,,	·0003	Rise, except in February.
9 and 10	·0003	,, ,, ,,	·0002	A rise generally observed.
10 and 11	·0004	,, ,, ,,	·0002	,, ,,
11 and 12	·0005	,, ,, ,,	·0004	,, ,,
12 and 13	·0007	,, ,, ,,	·0003	,, ,,
13 and 14	·0013	,, ,, ,,	·0003	,, ,,
14 and 15	·0002	Fall, except in September.	·0006	,, ,,
15 and 16	·0017	A fall generally observed.	·0008	Rise, except in March.
16 and 17	·0021	,, ,, ,,	·0008	Fall, except in October.
17 and 18	·0016	,, ,, ,,	·0017	,, ,,
18 and 19	·0008	,, ,, ,,	·0019	,, ,,
19 and 20	·0004	Rise, except in August.	·0005	Fall, except in October and November.
20 and 21	·0007	Rise, except in September.	·0004	Variable.
21 and 22	·0006	Rise, except in July.	·0006	Fall, except in March and October.
22 and 23	·0002	Variable.	·0004	Fall, except in January.
23 and Noon	·0007	Fall, except in July and August.	·0009	Variable.

TABLE LXXXIII.—*Mean Hourly Values of Absolute Vertical Intensity, diminished by the Monthly Mean, and the Mean Hourly Change for each Hour of Göttingen Mean Solar Time.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	H. M.
Noon.	-0·0008	-0·0014	-0·0010	0·0005	0·0003	0·0006	-0·0001	-0·0006	0·0007	0·0019	-0·0018	-0·0003	4 12 P.M.
1	- ·0002	- ·0008	- ·0013	- ·0001	·0003	·0006	- ·0003	- ·0005	·0007	·0020	- ·0012	·0010	5 12 „
2	·0002	- ·0006	- ·0007	- ·0003	- ·0007	- ·0001	- ·0008	- ·0013	·0007	·0017	- ·0005	·0017	6 12 „
3	·0006	- ·0004	- ·0008	- ·0003	- ·0016	·0002	- ·0013	- ·0010	·0006	·0014	·0004	·0015	7 12 „
4	·0007	- ·0001	- ·0008	·0000	- ·0010	- ·0001	- ·0012	- ·0006	·0003	·0008	·0004	·0011	8 12 „
5	·0009	- ·0002	·0001	·0005	- ·0005	- ·0005	- ·0010	- ·0001	- ·0001	·0004	·0001	·0005	9 12 „
6	·0005	- ·0002	- ·0003	·0003	- ·0003	·0000	- ·0008	·0002	- ·0004	- ·0001	·0005	·0001	10 12 „
7	- ·0001	- ·0001	·0000	·0001	- ·0002	·0001	- ·0010	·0006	- ·0005	- ·0005	·0002	·0000	11 12 „
8	·0001	·0002	·0001	·0000	·0001	·0002	- ·0003	·0009	- ·0007	- ·0008	·0001	- ·0003	Midnight
9	·0002	- ·0003	·0003	·0002	·0005	·0004	- ·0002	·0009	- ·0008	- ·0011	·0000	- ·0006	1 12 A.M.
10	·0001	- ·0004	·0007	·0006	·0007	·0002	- ·0004	·0010	- ·0010	- ·0014	·0000	- ·0007	2 12 „
11	·0003	- ·0005	·0007	·0005	·0004	·0002	·0003	·0012	- ·0011	- ·0017	- ·0003	- ·0007	3 12 „
12	·0001	- ·0001	·0007	·0006	·0004	·0005	·0004	·0014	- ·0010	- ·0019	- ·0001	- ·0009	4 12 „
13	·0000	·0000	·0003	·0005	·0008	·0006	·0011	·0017	- ·0014	- ·0023	- ·0003	- ·0011	5 12 „
14	- ·0002	- ·0007	·0000	·0011	·0017	·0014	·0015	·0025	- ·0015	- ·0031	- ·0008	- ·0017	6 12 „
15	·0001	·0001	·0004	·0007	·0013	·0007	·0010	·0019	- ·0015	- ·0033	- ·0004	- ·0009	7 12 „
16	·0020	·0026	·0003	- ·0006	- ·0004	·0003	·0003	·0002	- ·0016	- ·0027	- ·0009	·0003	8 12 „
17	·0027	·0033	·0008	- ·0018	- ·0005	- ·0011	·0001	- ·0009	- ·0009	- ·0010	·0002	·0009	9 12 „
18	·0012	·0031	·0001	- ·0023	- ·0023	- ·0003	- ·0005	- ·0011	·0001	·0006	·0000	·0017	10 12 „
19	- ·0010	·0014	·0002	- ·0014	- ·0016	- ·0009	·0001	- ·0011	·0012	·0021	·0005	·0003	11 12 „
20	- ·0017	·0000	·0002	- ·0011	- ·0010	- ·0008	·0004	- ·0015	·0019	·0022	·0008	·0002	Noon.
21	- ·0022	- ·0011	·0004	- ·0004	·0003	- ·0003	·0007	- ·0016	·0013	·0021	·0011	- ·0002	1 12 P.M.
22	- ·0025	- ·0020	·0005	·0005	·0010	- ·0004	·0006	- ·0010	·0019	·0022	·0009	- ·0010	2 12 „
23	- ·0019	- ·0025	·0010	·0008	·0014	- ·0001	·0006	- ·0013	·0020	·0022	- ·0005	- ·0012	3 12 „

TABLE LXXXIV.—*Showing, for each Month, the Mean Diurnal Inequality of the Absolute Values of Vertical Intensity, as obtained by taking the Monthly Sums and Means of all the Numbers in the preceding Table, without regard to the Signs of Numbers.*

Months, 1857.	Monthly Sums.	Mean Diurnal Inequality.	FOR SEASONS.	
	En. Un.	En. Un.		En. Un.
January	0·0203	0·0009		
February	·0221	·0009	Mean of { Jan. Feb. March, Oct. Nov. Dec. } or Winter ..	0·0008
March	·0107	·0004		
April	·0152	·0006	Mean of { April, May, June, July, Aug. Sept. } or Summer..	0·0007
May	·0198	·0008		
June	·0106	·0004	Mean of the year	0·0008
July	·0150	·0006		
August	·0251	·0010	Greatest monthly mean, in August.....	0·0010
September	·0239	·0010	Least monthly mean, in June.....	0·0004
October	·0395	·0016		
November	·0120	·0005	Difference....	0·0006
December	·0189	·0008		

TABLE LXXXV.—*Showing, for the Year* 1857, *the Mean Diurnal Inequality of the Absolute Values of Vertical Intensity for each Hour of Göttingen Mean Time, as obtained by taking the Hourly Sums of Numbers in Table LXXXIII. without regard to the Signs of Numbers.*

Göttingen Mean Time.	Bombay Civil Time.	Hourly Sums.	Mean Hourly Inequality.	FOR DAY AND NIGHT.
	H. M.	En. Un.	En. Un.	
Noon.	4 12 P. M.	0·0105	0·0009	
1	5 12 „	·0090	·0008	
2	6 12 „	·0093	·0008	
3	7 12 „	·0101	·0008	Mean of {2, 3, 4, 5, 6, 7, / 8, 9, 10, 11, 12, 13,} or Night ..... 0·0003
4	8 12 „	·0071	·0006	
5	9 12 „	·0049	·0004	
6	10 12 „	·0037	·0003	Mean of {14, 15, 16, 17, 18, 19, / 20, 21, 22, 23, 0, 1,} or Day ..... 0·0005
7	11 12 „	·0034	·0003	
8	0 12 A. M.	·0038	·0003	
9	1 12 „	·0055	·0005	Mean..... 0·0004
10	2 12 „	·0072	·0006	
11	3 12 „	·0079	·0007	
12	4 12 „	·0081	·0007	
13	5 12 „	·0101	·0008	
14	6 12 „	·0162	·0014	
15	7 12 „	·0123	·0010	TIMES OF MEAN MAXIMUM AND MINIMUM.
16	8 12 „	·0122	·0010	
17	9 12 „	·0142	·0012	Greatest inequality at 17h.
18	10 12 „	·0133	·0011	Least inequality at 7h.
19	11 12 „	·0118	·0010	
20	0 12 P. M.	·0118	·0010	
21	1 12 „	·0117	·0010	
22	2 12 „	·0145	·0012	
23	3 12 „	·0145	·0012	

It appears from this table that the movements of the Vertical Force Magnet were more regular between 10 P. M. and 1 A. M., while they were most disturbed from sunrise to 3 P. M.

DIP.

THIS element has been obtained both by calculation and from observations. The values of calculated Dip were deduced from the absolute values of horizontal and vertical intensities, and the observed Dip was carefully determined, by Henry Barrow's Dipping Circle, twice a week throughout the year.

The mean values of calculated Dip, in the following Tables, are corrected for all instrumental errors of the Horizontal and Vertical Force Magnetometers from which the Dip is deduced.

TABLE LXXXVI.—*Mean Value of Calculated Dip, for each Day of Göttingen Mean Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	19°03′7	18°57′9		19°01′1	19°03′5	19°06′3	19°06′9		19°10′7	19°13′3	19°11′1	19°16′6
2	·01·7	·56·7	19°00′1	·02·0		·09·2	·06·5	19°12′8	·10·7	·12·9	·10·0	·16·9
3		·56·0	·00·2	·03·4	·01·9	·08·3	·06·8	·11·1	·13·5*		·12·4	·16·2
4	·00·6	·57·7	·01·8		·02·0	·07·2			·12·3	·12·2	·15·2	·14·7
5	·00·8	·59·0	·01·6	·05·4	·01·5	·06·8	·07·9	·10·9		·12·1	·12·5	
6	·01·2	·58·2	·01·7	·05·8	·02·0		·08·6	·11·1	·09·8	·11·2	·11·1	·15·1
7	18·59·7			·05·5	·01·8*	·07·7	·08·9	·10·0	·10·9	·11·3		·15·5
8	·58·6	·58·9	·03·1	·05·6	·03·7*	·08·1	·10·4		·11·7	·10·6	·09·5	·15·0
9	·56·5	·59·3	·03·2			·08·7	·08·8	·09·7	·11·9	·09·8	·11·8	·14·7
10		·56·6		·06·5	·02·5	·09·1	·08·6	·09·4	·13·5		·11·3	·14·8
11	·54·6	·56·5	·03·5		·03·2	·10·7		·08·3	·11·7	·09·8	·11·4	·15·0
12	·54·3	·56·5	·02·8	·08·5	·02·4	·09·9	·10·3	·05·8		·09·2	·12·0	
13	·55·6	·57·5	·04·4	·07·3	·03·0		·12·3	·04·4	·10·9	·08·9	·11·1	·12·2
14	·56·3			·05·9	·04·0	·09·8	·14·3		·11·0	·08·8		·12·0
15	·54·5	·58·5	·03·3	·05·5	·04·9	·10·4	·14·9		·09·5	·09·8	·09·5	·11·9
16	·55·0	·53·4	·02·7	·04·7		·10·5	·15·7	·07·3	·09·6		·10·0	·13·4*
17		·57·9	·00·9	·04·4	·03·7	·11·0	·15·5	·07·2	·09·8		·13·0	·20·5*
18	·55·6	·57·7	·00·4		·03·9	·11·7		·06·4	·09·5	·08·7	·13·8	·17·2*
19	·55·5	·57·2	·00·9	·07·0	·04·1	·08·5	·14·7	·05·9		·08·2	·12·4	
20	·54·3	·57·7	·01·6	·08·9	·05·3		·15·5	·05·9	·06·8	·07·8	·11·7	·14·1
21	·53·6			·07·9	·05·4	·05·5	·17·1	·05·8	·06·9*	·07·1		·12·7
22	·53·5	·58·1	·00·3	·06·6	·05·0	·08·6	·17·0		·01·3	·06·2	·10·3	·09·6
23	·55·4	·58·6	·01·2	·06·9		·09·6	·18·0	·02·0	18·59·3	·06·2	·11·4	·09·6
24		·58·6	·01·4	·06·4	·05·1	·09·1	·17·4	·01·7	19·01·0		·12·4	
25	·56·9	·57·9	·01·6		·06·6	·06·8		·01·2	·06·0	·05·7	·11·9	·08·1
26	·57·8	·58·6	·03·0	·05·7	·05·8	·06·8	·17·0	·02·4		·05·2	·16·6	
27	·59·3	·59·6	·03·7	·06·3	·06·8		·20·7	·03·6	·17·8	·04·3	·17·9	·08·0*
28	·58·8	19·00·7		·05·8	·05·5	·06·6	·21·4	·05·0	·16·5	·03·7	·17·7	·08·6*
29	·58·3		·03·0	·05·0	·03·6	·06·7	·19·7	·05·7	·14·6	·04·7		·06·6
30	·58·4		·02·5	·04·2	·04·7	·06·0	·16·8		·14·2	·04·7	·16·1	·02·1
31			·01·0				·16·3	·08·1				·01·4

* This sign denotes abnormal days, or the days on which Magnetic disturbances occurred.

TABLE LXXXVII.—*Showing the Number of Instances in which the Difference between the Mean Daily Values of Calculated Dip, on two Consecutive Days, was within certain Limits.*

Difference between the Means of Two Consecutive Days.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole Number of Cases in the Year.
En. Un. En. Un.													
Greater than 0·06 and less than 0·12	3	2	3	1	2	3		2	3	3	1	3	26
„ 0·12 „ 0·18	1	1	3		3	1	2	2	2		1	2	18
„ 0·18 „ 0·24	1		1	3	1		2	3	1	1		2	15
„ 0·24 „ 0·30	1	2		2	1	3	3		1	2		2	17
„ 0·30 „ 0·36	3	4	3	2	2	2	1	2		3	3	1	26
„ 0·36 „ 0·42	1		1	1	1	2	1			2	1	1	11
„ 0·42 „ 0·48	2	4	4	1	1	2	2	1		3	1	2	23
„ 0·48 „ 0·54		1		3	2	1	3	1	2	1	1		15
„ 0·56 „ 1·00	1		1	2	1	2	1			3	1		12
„ 1·00 „ 1·30	4	6	4	5	7	2	2	6	3	3	7	1	50
„ 1·30 „ 2·00	6	1	4	1	4	1	5	1	5		3	3	34
„ 2·00 „ 2·30	2			2		1	2	1	1		2	1	12
„ 2·30 „ 3·00		1		1		2	1	2	3		2	1	13
„ 3·00 „ 5·00						2	1	1			2	4	10
„ 5·00 „ 12·00									3			1	4

It appears from this Table that there were,—

About 163 in which the difference was greater than 0·′1 and less than 1·′0.

84 „ „ „ 1·0 „ 2·0.

25 „ „ „ 2·0 „ 3·0.

10 „ „ „ 3·0 „ 5·0.

3 „ „ „ 5·0 „ 7·0.

In no case the difference between the mean daily values of two consecutive days was greater than 12·′0.

TABLE LXXXVIII.—*Showing, in each Month, the Greatest and Least Difference between the Mean Daily Values of Calculated Dip on two Consecutive Days.*

Months, 1857.	Difference between the Daily Means of two Consecutive Days.		Difference.	The Days between which the Difference was	
	Greatest.	Least.		Greatest.	Least.
				D.	D.
January	0°02′1	0·00′1	0°02′0	8 & 9	3 instances.
February	·02·7	·00·0	·02·7	9 & 10	2 instances.
March	·01·8	·00·0	·01·8	16 & 17	3 instances.
April	·02·6	·00·1	·02·5	17 & 19	7 & 8
May	·01·9	·00·1	·01·8	28 & 29	2 instances.
June	·03·2	·00·0	·03·2	18 & 19	25 & 26
July	·03·7	·00·2	·03·5	26 & 27	2 instances.
August	·03·8	·00·0	·03·8	21 & 23	19 & 20
September	·11·8	·00·0	·11·8	25 & 27	1 & 2
October	·01·1	·00·0	·01·1	15 & 18	3 instances.
November	·04·7	·00·1	·04·6	25 & 26	10 & 11
December	·07·1	·00·0	·07·1	16 & 17	22 & 23

This Table shows that the difference between the mean daily values of two consecutive days was generally less than 2·′0. There was only a single instance, in September, in which the difference was greater than 11·′0 and less than 12·′0.

TABLE LXXXIX.—*Showing the Greatest and Least Mean Daily Values of Calculated Dip, in each Month of the Year* 1857.

Months, 1857.	Mean Daily Values of Calculated Dip.		Difference.	The Day on which the Dip was	
	Greatest.	Least.		Greatest.	Least.
				D.	D.
January	19°03′7	18°53′5	0°10′2	1	22
February	·00·7	·56·0	·04·7	28	3
March	·04·4	19·00·1	·04·3	4	1
April	·08·9	·01·1	·07·8	20	1
May	·06·8	·01·5	·05·3	27	5
June	·11·7	·05·5	·06·2	18	21
July	·21·4	·06·5	·14·9	28	2
August	·12·8	·01·2	·11·6	2	25
September	·7·8	18·59·3	·18·5	27	23
October	·13·3	19·03·7	·09·6	1	28
November	·17·9	·09·5	·08·4	27	8 & 15
December	·20·5	·04·4	·19·1	17	31

It appears from this Table that the mean values of Dip were subject to less variation in the months of February, March, April, May, and June, or in the first half of the year, than the other half of the year 1857, in which the values were more variable. In the month of December they were subject to greatest variations. The extreme difference between the mean daily values of Dip was 27·'9, being the difference of the daily values of 22nd January and 28th July.

TABLE XC.—*Showing, for the Year* 1857, *the Hours of Göttingen Mean Time at which the Dip, calculated from Simple Hourly Observations, in each Month, was Greatest and Contrary.*

Months, 1857.	Calculated Dip in Simple Hourly Observations.		Extreme Range.	The Time at which the Calculated Dip was at its	
	Greatest.	Least.		Greatest.	Least.
				D. H.	D. H.
January	19°05′3	18°51′0	0°14′3	1·10	21·22
February	·00·5	·52·8	·07·7	1·15	18·22
March	·04·2	·58·0	·06·2	4·15	31·19 & 20
April	·08·1	19·01·7	·06·4	5·14	30·20
May	·09·8	·01·0	·08·8	7·16	29·19
June	·11·1	·03·2	·07·9	2·14	30·21 & 22
July	·22·6	·04·5	·18·1	28·3&4	9·20
August	·15·6	18·57·3	·18·3	2·14	25·21
September	·19·0	·57·1	·21·9	27·5,6&11	23· 1
October	·11·3	19·01·9	·09·4	15· 7	28·19
November	·19·1	·04·4	·14·7	28·15	2·23
December	·25·2	18·57·4	·27·8	17· 5	31·23

It appears from this Table that the times of the greatest and least values of Dip, in simple hourly observations, were not constant; greatest values occur between 14h. and 16h., and the least values happen between 19h. and 22h., Göttingen time. The difference between the extreme values of deduced Dip was 34·2, being about 7 minutes less than the difference of the preceding year.

TABLE XCI.—*Showing, for each Month, the Mean Value of Calculated Dip and its Periodic Changes from the Mean of the Year, as obtained from the Scale Values of Horizontal and Vertical Force Magnetometers.*

Months, 1857.	Mean Value of Calculated Dip.	Difference from the Mean of the Year.	FOR SEASONS.
January	18°57′3	− 0°09′3	Mean of { Jan. Feb. Mar. / Oct. Nov. Dec. } or Winter.. 19°05′0
February	·58·1	− ·08·5	
March	19·02·0	− ·04·6	
April	·05·7	− ·00·9	Mean of { Apr. May, June, / July, Aug. Sept. } or Summer.. 19·08·2
May	·04·0	− ·02·6	
June.....	·09·2	·02·6	Mean of the year.... 19·06·6
July	·13·6	·07·0	
August.....	·06·7	·00·1	
September	·10·0	·03·4	Greatest monthly mean, in July ..... 19·13·6
October	·08·5	·01·9	Least monthly mean, in January..... 18·57·3
November	·12·3	·05·7	
December.....	·12·1	·05·5	Difference ..... 0·16·3

This Table shows that the values of deduced Dip were slowly increasing from January to July, but afterwards became quite irregular: this is supposed to have been the effect of the irregular movements of Vertical Force Magnetometer during the rainy season. Mean annual Dip of this year was about 5′·2 less than the annual Dip of the last year.

TABLE XCII.—*Daily Range of the Calculated Dip for each Day of Göttingen Mean Time, as obtained from the uncorrected Values of Horizontal and Vertical Intensity.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	0°07′5	0°06′3		0°04′6	0°03′7	0°03′2	0°05′2		0°06′8	0°02′0	0°03′4	0°03′8
2	·06·8	·05·4	0°04′0	·06·1		·05·4	·05·2	0°07′5	·04·4	·02·5	·04·6	·05·7
3		·06·0	·03·3	·05·6	·05·6	·03·7	·04·0	·02·0	·07·9		·05·3	·04·0
4	·04·3	·05·8	·04·8		·03·9	·04·5			·05·4	·02·5	·05·9	·07·3
5	·07·0	·04·3	·04·4	·05·4	·04·3	·03·6	·03·8	·03·2		·02·6	·05·8	
6	·06·0	·05·2	·04·7	·04·9	·04·8		·04·6	·06·9	·04·5	·02·9	·05·1	·05·7
7	·05·2			·05·8	·11·8	·04·2	·06·2	·04·8	·03·4	·03·8		·04·4
8	·04·2	·06·0	·03·5	·06·0	·07·4	·06·0	·05·0		·02·6	·02·7	·04·2	·04·0
9	·05·4	·11·9	·04·5			·04·8	·07·5	·04·0	·02·5	·02·3	·06·0	·03·8
10		·06·7		·05·0	·04·8	·04·4	·05·3	·06·3	·04·5		·04·8	·03·3
11	·03·2	·06·5	·05·9		·04·8	·07·3		·08·9	·02·5	·02·4	·06·6	·04·7
12	·05·2	·04·9	·04·3	·05·5	·05·8	·06·4	·06·2	·08·9		·02·2	·03·4	
13	·05·2	·03·1	·04·2	·04·9	·06·7		·03·7	·06·4	·02·5	·02·8	·04·0	·04·2
14	·03·7			·07·0	·05·4	·04·2	·04·1		·02·5	·02·2		·03·4
15	·05·1	·05·9	·05·8	·05·8	·04·7	·04·5	·05·3		·02·3	·03·3	·05·1	·03·7
16	·07·2	·06·4	·05·5	·05·8		·03·9	·05·0	·04·4	·01·6		·03·5	·08·1
17		·04·3	·05·7	·05·1	·06·4	·04·5	·03·1	·05·6	·01·8		·04·2	·12·6
18	·06·7	·08·0	·04·4		·05·5	·05·5		·05·5	·03·0	·01·6	·05·4	·05·3
19	·05·6	·04·8	·05·3	·05·8	·05·6	·07·1	·04·0	·05·7		·03·0	·04·3	
20	·04·7	·03·8	·04·2	·06·4	·06·1		·04·5	·04·1	·05·3	·03·6	·05·0	·05·5
21	·04·7			·05·0	·06·7	·05·4	·03·5	·07·1	·08·1	·01·9		·05·5
22	·04·2	·04·8	·04·3	·04·3	·06·6	·04·9	·06·3		·05·0	·02·8	·05·0	·03·3
23	·05·0	·04·3	·06·4	·04·3		·03·9	·06·9	·05·7	·04·7	·00·9	·04·7	·02·3
24		·03·7	·06·7	·05·4	·06·3	·06·0	·05·9	·07·4	·04·3		·04·2	
25	·04.3	·03·0	·05·5		·05·7	·05·7		·08·0	·11·3	·03·0	·03·7	·02·9
26	·04·1	·04·9	·05·1	·07·2	·05·3	·05·6	·03·6	·07·4		·02·9	·08·2	
27	·05·7	·03·8	·05·2	·06·0	·04·9		·03·3	·05·5	·02·8	·02·5	·03·3	·03·4
28	·06·3	·04·3		·04·9	·06·1	·05·8	·04·0	·06·7	·03·2	·02·7	·02·9	·05·1
29	·05·7		·02·8	·05·1	·04·9	·06·1	·04·6	·05·2	·03·7	·02·9		·03·3
30	·05.7		·05·9	·04·6	·04·5	·05·1	·06·4		·03·6	·03·2	·03·2	·05·4
31			·05·1				·05·2	·05·6				·06·3

TABLE XCIII.—*Showing the Number of Instances in which the Daily Range of Computed Dip was within certain Limits.*

Daily Range of Computed Dip.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole Number of cases in the Year.
Greater than 1′ and less than 2′									2	2			4
,, 2 ,, 3							6	1	7	16	1	2	28
,, 3 ,, 4	2	5	1		2	5	7	1	5	6	6	8	48
,, 4 ,, 5	7	8	2	7	8	8	8	4	5		8	5	77
,, 5 ,, 6	10	4	10	12	7	7	5	7	3		8	7	83
,, 6 ,, 7	4	6	10	4	7	4	1	4	1		2	1	40
,, 7 ,, 8	3		2	2	1	2		4	1			1	15
,, 8 ,, 9		1						3	1		1	1	7
,, 9 ,, 10													
,, 10 ,, 11													
,, 11 ,, 12		1			1				1				3
,, 12 ,, 13												1	1

It appears from the last column of this Table that there were 4 instances in which the daily range was greater than 9′ and less than 13′; there were 4 instances in which the range was greater than 1′ and less than 2′; while in the remaining instances the range was between 2′ and 9′, the range of Dip never exceeding 13′·0. There was only a single instance during the last year in which the range was 13′5.

TABLE XCIV.—*Showing the Greatest and Least Ranges of Calculated Dip in each Month of the Year* 1857.

Months, 1857.	Range of Computed Dip.		Difference.	The Day on which the Range was	
	Greatest.	Least.		Greatest.	Least.
				D.	D.
January	0°07′5	0°03′2	0°04′3	1	11
February	·11·9	·03·0	·08·9	9	25
March	·06·7	·02·8	·03·9	24	29
April	·07·2	·04·3	·02·9	26	22 & 23
May	·11·8	·03·7	·08·1	7	1
June	·07·3	·03·2	·04·1	11	1
July	·07·5	·03·1	·04·4	9	17
August	·08·9	·02·0	·06·9	11 & 12	3
September	·11·3	·01·6	·09·7	25	16
October	·03·8	·00·9	·02·9	7	23
November	·08·2	·02·9	·05·3	26	25
December	·12·6	·02·3	·10·3	17	23

The extreme difference between the ranges of deduced Dip was 11′·7, being about 0′5 less than the difference of the last year. The range in the month of October was smaller than the ranges of the other months.

TABLE XCV.—*Showing the Mean Monthly Range of Computed Dip.*

Months, 1857.	Mean Monthly Range of Dip.	FOR SEASONS.
January	0°05′3	
February	·05·4	Mean of { Jan. Feb. March, Oct. Nov. Dec. } or Winter. 0°04·6
March	·04·9	
April	·05·5	
May	·05·5	Mean of { Apr. May, June, July, Aug. Sept. } or Summer. 0·05·2
June	·05·1	
July	·04·9	
August	·06·0	Annual Mean 0·04·9
September	·04·1	
October	·02·6	
November	·04·3	
December	·04·9	

The mean monthly range was smaller in October than the ranges of the other months, showing that the values of deduced Dip were subject to less variations in that month.

TABLE XCVI.—*Mean Value of Calculated Dip, corrected for Instrumental Errors, in each Month, for each Hour of Göttingen Mean Time.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Noon.	18°56′2	18°56′6	19°00′8	19°05′0	19°03′4	19°08′9	19°12′9	19°05′8	19°09′6	19°08′5	19°10′9	19°11′2	H. M. 4 12 P. M.
1	·56·3	·56·7	·00·7	·04·9	·03·4	·08·9	·12·7	·05·8	·09·4	·08·6	·11·2	·11·7	5 12 „
2	·56·9	·57·4	·01·2	·05·3	·03·2	·08·7	·12·7	·05·8	·09·6	·08·6	·11·7	·12·2	6 12 „
3	·57·3	·57·8	·01·6	·05·5	·04·0	·09·0	·12·9	·06·2	·10·0	·09·0	·12·4	·12·5	7 12 „
4	·57·6	·58·3	·01·7	·05·8	·04·0	·09·3	·13·3	·06·6	·10·3	·09·0	·12·6	·12·6	8 12 „
5	·58·0	·58·4	·02·3	·06·2	·04·2	·09·6	·13·4	·07·0	·10·3	·09·3	·12·9	·12·9	9 12 „
6	·58·0	·58·5	·02·4	·06·4	·04·4	·09·8	·13·7	·07·3	·10·4	·09·1	·13·4	·13·0	10 12 „
7	·58·0	·58·8	·02·9	·06·5	·04·3	·09·8	·13·8	·07·6	·10·4	·09·1	·13·4	·13·2	11 12 „
8	·58·1	·59·0	·02·9	·06·4	·04·9	·09·9	·14·0	·07·7	·10·4	·09·0	·13·2	·12·9	Midnight.
9	·58·3	·58·9	·03·0	·06·8	·05·2	·10·0	·14·4	·07·8	·10·4	·09·1	·13·2	·13·0	1 12 A. M.
10	·58·4	·59·0	·03·3	·07·1	·05·4	·10·2	·14·5	·08·0	·10·5	·08·9	·13·3	·12·9	2 12 „
11	·58·6	·59·1	·03·5	·07·1	·05·3	·10·3	·14·8	·08·2	·10·5	·09·0	·13·3	·13·0	3 12 „
12	·58·7	·59·3	·03·7	·07·3	·05·4	·10·7	·15·0	·08·4	·10·6	·09·0	·13·5	·13·1	4 12 „
13	·58·6	·59·5	·03·7	·07·5	·05·7	·10·9	·15·4	·08·7	·10·7	·09·1	·13·6	·13·2	5 12 „
14	·58·8	·59·5	·03·8	·07·6	·06·5	·11·3	·15·3	·09·2	·10·9	·09·0	·13·6	·13·2	6 12 „
15	·59·1	19°00·0	·03·9	·08·1	·06·2	·10·5	·15·4	·09·1	·11·3	·09·0	·13·7	·13·6	7 12 „
16	·59·2	·00·2	·03·1	·06·2	·03·2	·09·6	·14·5	·08·0	·10·6	·08·3	·13·1	·13·4	8 12 „
17	·58·5	18°59·3	·02·0	·04·4	·03·0	·08·5	·13·4	·06·3	·09·6	·07·9	·12·0	·12·3	9 12 „
18	·56·7	·57·9	·00·5	·03·6	·02·0	·07·4	·12·2	·05·2	·08·9	·07·3	·10·9	·11·4	10 12 „
19	·55·1	·56·5	18°59·8	·02·8	·01·4	·06·7	·11·8	·04·4	·08·6	·07·0	·10·2	·10·0	11 12 „
20	·54·7	·55·7	·59·8	·03·1	·01·7	·06·8	·11·8	·04·2	·08·8	·07·2	·10·5	·10·4	Noon.
21	·54·7	·55·6	19°00·2	·03·8	·02·4	·07·1	·12·0	·04·3	·09·0	·07·6	·11·0	·11·5	1 12 P. M.
22	·54·8	·55·5	·00·6	·04·1	·03·0	·08·0	·12·5	·04·7	·09·3	·08·0	·10·9	·11·5	2 12 „
23	·55·2	·55·7	·01·3	·04·7	·03·4	·08·2	·12·7	·05·1	·09·7	·08·4	·11·1	·10·4	3 12 „

TABLE XCVII.—*Showing, for the Year* 1857, *the Hours of Göttingen Mean Time, at which the Mean Hourly Value of Calculated Dip, in each Month, was at its Maximum and Minimum.*

Months, 1857.	The Mean Hourly Values of Calculated Dip.				Mean Diurnal Range.	The Time at which the Mean Hourly Value of calculated Dip was at its			
	Evening Maximum.	Evening Minimum.	Morning Maximum.	Mid-day Minimum.		Evening Maximum.	Evening Minimum.	Morning Maximum.	Mid-day Minimum.
						H.	H.	H.	H.
January	18°58'7	18°58'6	18°59'2	18°54'7	0°04'5	12	13	16	21
February	·59·0	·58·9	19·00·2	·55·5	·04·7	8	9	16	22
March	19·01·3	19·00·7	·03·9	·59·8	·04·1	23	1	15	20
April	·05·0	·04·9	·08·1	19·02·8	·05·3	24	1	15	19
May	·03·4	·03·2	·06·5	·01·4	·05·1	24	2	14	19
June	·08·9	·08·7	·11·3	·06·7	·04·6	24	2	14	19
July	·12·9	·12·7	·15·4	·11·8	·03·6	24	2	15	19
August			·09·2	·04·2	·05·0			14	20
September	·09·7	·09·4	·11·3	·08·6	·02·7	23	1	15	19
October	·09·3	·08·9	·09·1	·07·0	·02·3	5	10	13	19
November	·11·1	·10·9	·13·7	·10·2	·03·5	23	0	15	19
December	·13·2	·12·9	·13·6	·10·0	·03·6	7	8	15	19

It appears from this Table that the mean hourly values of deduced Dip, during this year, were greatest at about its morning maximum, or at about 15h. Göttingen time, except in October, in which month the hourly value was greatest at its evening maximum. There were generally two maxima and two minima in the diurnal variations of Dip, but in August only one maximum and one minimum were noticed. The times of the morning maximum and mid-day minimum were nearly constant, but the times of the evening maximum and minimum were not so.

TABLE XCVIII.—*Showing, for the Year* 1857, *the Mean Values of Calculated Dip, for each Hour of Göttingen Mean Time; and also its Diurnal Changes from the Mean of the Year.*

Göttingen Mean Time.	Bombay Civil Time.	Mean Annual.	Difference from the Mean of the whole.	FOR DAY AND NIGHT.
	H. M.			
Noon.	4·12 P. M.	19·05·8	− 0·00·8	
1	5 12 „	·05·9	− ·00·7	
2	6 12 „	·06·1	− ·00·5	
3	7 12 „	·06·5	− ·00·1	Mean of {2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,} or Night ..... 19°07'2
4	8 12 „	·06·8	·00·2	
5	9 12 „	·07·0	·00·4	
6	10 12 „	·07·2	·00·6	
7	11 12 „	·07·3	·00·7	Mean of {14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 0, 1,} or Day..... 19·06·0
8	0·12 A. M.	·07·4	·00·8	
9	1 12 „	·07·5	·00·9	Mean..... 19·06·0
10	2 12 „	·07·6	·01·0	
11	3 12 „	·07·7	·01·1	
12	4 12 „	·07·9	·01·3	
13	5 12 „	·08·0	·01·4	
14	6 12 „	·08·2	·01·6	TIMES OF MEAN MAXIMUM AND MINIMUM.
15	7 12 „	·08·3	·01·7	
16	8 12 „	·07·4	·00·8	G.M.T. B.C.T.
17	9 12 „	·06·4	− ·00·2	A maximum at 15 or 7 A.M.
18	10 12 „	·05·3	− ·01·3	A minimum at 19 or 11 A.M.
19	11 12 „	·04·5	− ·02·1	
20	0·12 P. M.	·04·6	− ·02·0	
21	1 12 „	·04·9	− ·01·7	
22	2 12 „	·05·2	− ·01·4	
23	3 12 „	·05·5	− ·01·1	

The Dip deduced from the observations of Magnetometers, taken at 8 A. M. and 9 P. M., or 4h. and 17h. Göttingen time, will be near enough to the mean Dip of any day.

TABLE XCIX.—*Excess of the Mean Hourly Values of Calculated Dip above the Mean Monthly Value.*

Göttingen Mean Solar Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Noon.	−0°01′1	−0°01′5	−0·01′2	−0°00′7	−0°00′6	−0°00′3	−0°00′7	−0°00′9	−0°00′4	0°00′0	−0°02′4	−0°00′9	Midnight.
1	− ·01·0	− ·01·2	− ·01·3	− ·00·8	− ·00 6	− ·00·3	− ·00·9	− ·00·9	− ·00·4	·00·1	− ·01·1	− ·00·4	1 A. M.
2	− ·00·4	+ ·00·7	− ·00·8	− ·00·4	− ·00·8	− ·00·5	− ·00·9	− ·00·9	− ·00·4	·00·1	− ·00·6	·00·1	2 „
3	·00·0	− ·00·3	− ·00·4	− ·00·2	·00·0	− ·00·2	− ·00·7	− ·00·5	·00·0	·00·5	·00·1	·00·4	3 „
4	·00·3	·00·2	− ·00·3	·00·1	·00·0	·00·1	− ·00·3	− ·00·1	·00·3	·00·5	·00·3	·00·5	4 „
5	·00·7	·00·3	·00·3	·00·5	·00·2	·00·4	− ·00·2	·00·3	·00·3	·00·8	·00·6	·00·8	5 „
6	·00·7	·00·4	·00·4	·00·7	·00·4	·00·6	·00·1	·00·6	·00·4	·00·6	·01·1	·00 9	6 „
7	·00·7	·00·7	·00·9	·00·8	·00·3	·00·6	·00·2	·00·7	·00·4	·00·6	·01·1	·01·1	7 „
8	·00·8	·00·9	·00·9	·00·7	·00·9	·00·7	·00·4	·01·0	·00·4	·00·5	·00·9	·00·8	8 „
9	·01·0	·00·8	·01·0	·01·1	·01·2	·00·8	·00·8	·01·1	·00·4	·00·6	·00·9	·00·9	9 „
10	·01·1	·00·9	·01·3	·01·4	·01·4	·01·0	·00·9	·01·3	·00·5	·00·4	·01·0	·00·8	10 „
11	·01·3	·01·0	·01·5	·01·4	·01·3	·01·1	·01·2	·01·5	·00·5	·00·5	·01·0	·00·9	11 „
12	·01·4	·01·2	·01·7	·01·6	·01·4	·01·5	·01·4	·01·7	·00 6	·00·5	·01·2	·01·0	Noon.
13	·01·3	·01·4	·01·7	·01·8	·01·7	·01·7	·01·8	·02·0	·00·7	·00·6	·01·3	·01·1	1 P. M.
14	·01·5	·01·4	·01·9	·01·9	·02·5	·02·1	·01·7	·02·5	·00·9	·00·5	·01·3	·01·1	2 „
15	·01·8	·01·9	·01·9	·02·4	·02·2	·01·3	·01·8	·02·4	·01·3	·00·5	·01·4	·01·5	3 „
16	·01·9	·02·1	·01·1	·00·5	·00·8	·00·4	·00·9	·01·3	·00·6	− ·00·2	·00·8	·01·3	4 „
17	·01·2	·01·2	·00 0	− ·01·3	− ·01·0	− ·00·7	− ·00·2	− ·00·4	− ·00·4	− ·00·6	− ·00·3	·00·2	5 „
18	− ·00·6	− ·00·2	− ·01·5	− ·02·1	− ·02·0	− ·01·8	− ·01·4	− ·01·5	− ·01·1	− ·01·2	− ·01·4	− ·00·7	6 „
19	− ·02·2	− ·01·6	− ·02·2	− ·02·9	− ·02·6	− ·02·5	− ·01·8	− ·02·3	− ·01·4	− ·01·5	− ·02·1	− ·02·1	7 „
20	− ·02·6	− ·02·4	− ·02·2	− ·02·6	− ·02·3	− ·02·4	+ ·01·8	− ·02·5	− ·01·2	− ·01·3	− ·01·8	− ·01·7	8 „
21	− ·02·6	− ·02·5	− ·01·8	− ·01·9	− ·01·6	− ·02·1	− ·01·6	− ·02·4	− ·01·0	− ·00·9	− ·01·3	− ·00·6	9 „
22	− ·02·3	− ·02·6	− ·01·4	− ·01·6	− ·01·0	− ·01·2	− ·01·1	− ·02·0	− ·00·7	− ·00·5	− ·01·4	− ·00·6	10 „
23	− ·02·1	− ·02·4	− ·00·7	− ·01·0	− ·00·6	− ·01·0	− ·00·9	− ·01·6	− ·00·3	− ·00·1	− ·01·2	− ·01·7	11 „

TABLE C.—*Showing the Difference, in the Mean Hourly Values of Calculated Dip, between every Pair of Consecutive Hours in each Month, estimated Positive when the Calculated Dip was greater at the latter Hour.*

Göttingen Mean Time.	MONTHS, 1857.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Noon & 1	0°00′1	0°00′3	−0°00′1	−0°00′1	0°00′0	0°00′0	−0°00′2	0°00′0	−0°00′2	0°00′1	0°00′3	0°00′5
1 & 2	·00.6	·00·5	·00·5	·00·4	− ·00·2	− ·00·2	·00·0	·00·0	·00·2	·00·0	·00·5	·00·5
2 & 3	·00·4	·00·4	·00·4	·00·2	·00·8	·00·3	·00·2	·00·4	·00·4	·00·4	·00·7	·00·3
3 & 4	·00·3	·00·5	·00·1	·00·3	·00·0	·00·3	·00·4	·00·4	·00·3	·00·0	·00·2	·00·1
4 & 5	·00·4	·00·1	·00·6	·00·4	·00·2	·00·3	·00·1	·00·4	·00·0	·00·3	·00·3	·00·3
5 & 6	·00·0	·00·1	·00·1	·00·2	·00·2	·00·2	·00·3	·00·3	·00·1	− ·00·2	·00·5	·00·1
6 & 7	·00·0	·00·3	·00·5	·00·1	− ·00·1	·00·0	·00·1	·00·3	·00·0	·00·0	·00·0	·00·2
7 & 8	·00·1	·00·2	·00·0	− ·00·1	·00·6	·00·1	·00·2	·00·1	·00·0	− ·00·1	− ·00·2	− ·00·3
8 & 9	·00·2	− ·00·1	·00·1	·00·4	·00·3	·00·1	·00·4	·00·1	·00·0	·00·1	·00·0	·00·1
9 & 10	·00·1	·00·1	·00·3	·00·3	·00·2	·00·2	·00·1	·00·2	·00·1	− ·00·2	·00·1	− ·00·1
10 & 11	·00·2	·00·1	·00·2	·00·0	− ·00·1	·00·1	·00·3	·00·2	·00·0	·00·1	·00·0	·00·1
11 & 12	·00·1	·00·2	·00·2	·00·2	·00·1	·00·4	·00·2	·00·2	·00·1	·00·0	·00·2	·00·1
12 & 13	− ·00·1	·00·2	·00 0	·00·2	·00·3	·00·2	·00·4	·00·3	·00·1	·00·1	·00·1	·00·1
13 & 14	·00·2	·00 0	·00·1	·00·1	·00·8	·00·4	− ·00·1	·00·5	·00·2	− ·00·1	·00·0	·00·0
14 & 15	·00·3	·00·5	·00·1	·00·5	− ·00·3	− ·00·8	·00·1	− ·00·1	·00·4	·00·0	·00·1	·00·4
15 & 16	·00·1	·00·2	− ·00·8	− ·01·9	− ·03·0	− ·00·9	− ·00·9	− ·01·1	− ·00·7	− ·00·7	− ·00·6	− ·00·2
16 & 17	− ·00·7	− ·00 9	− ·01·1	− ·01·8	− ·00·2	− ·01·1	− ·01·1	− ·01·7	− ·01·0	− ·00·4	− ·01·1	− ·01·1
17 & 18	− ·01·8	− ·01·4	− 01·5	− ·00·8	− ·01·0	− ·01·1	− ·01·2	− ·01·1	− ·00·7	− ·00·6	− ·01·1	− ·00·9
18 & 19	− ·01·6	− ·01·4	− ·00·7	− ·00·8	− ·00·6	− ·00·7	− ·00·4	− ·00·8	− ·00·3	− ·00·3	− ·00·7	− ·01·4
19 & 20	− ·00·4	− ·00·8	·00·0	·00·3	·00·3	·00·1	·00·0	− ·00·2	·00·2	·00·2	·00·3	·00·4
20 & 21	·00·0	− ·00·1	·00·4	·00·7	·00·7	·00·3	·00·2	·00·1	·00·2	·00·4	·00·5	·01·1
21 & 22	·00·1	− ·00·1	·00·4	·00·3	·00·6	·00·9	·00·5	·00·4	·00·3	·00·4	− ·00·1	·00·0
22 & 23	·00·4	·00·2	·00·7	·00·6	·00·4	·00·2	·00·2	·00·4	·00·4	·00·4	·00·2	− ·01·1
23 & Noon.	·01·0	·00·9	− ·00·5	·00·3	·00·0	·00·7	·00·2	·00·7	− ·00·1	·00·1	− ·00·2	·00·8

TABLE CI.—*This Table is formed by taking the Sums and Means of the Numbers in the preceding Table, without regard to their Signs.*

Between what Hours.	Mean amount of Difference in Summer.	Character of Changes in Summer.	Mean amount of Difference in Winter.	Character of Changes *in* Winter.
Noon and 1	0°00′1	Small fall, except in May, June, and August.	0°00′2	Small rise, except in March.
1 and 2	·00·2	A little rise, except in May and June.	·00·4	Large rise, except in October.
2 and 3	·00·4	Moderate rise.	·00·4	Large rise.
3 and 4	·00·3	„ „	·00·2	Small rise, except in October.
4 and 5	·00·2	Moderate rise, except in September.	·00·3	Moderate rise.
5 and 6	·00·2	Small rise.	·00·2	Small rise, except in January and October.
6 and 7	·00·1	Small rise, except in May.	·00·2	Small rise in February, March, and December.
7 and 8	·00·2	Small rise, except in April.	·00·1	Variable.
8 and 9	·00·2	General rise.	·00·1	Small rise, except in February.
9 and 10	·00·2	„ „	·00·1	Small rise, except in October and December.
10 and 11	·00·1	Rise, except in May.	·00·1	Small rise.
11 and 12	·00·2	Small rise.	·00·1	„ „
12 and 13	·00·2	„ „	·00·1	Small rise, except in January.
13 and 14	·00·3	Large rise, except in April and July.	·00·2	Rise in January and March.
14 and 15	·00·4	Variable.	·00·2	Generally rising.
15 and 16	·01·4	Very great fall.	·00·4	A large fall, except in January and February.
16 and 17	·01·1	„ „	·00·9	Very large fall.
17 and 18	·01·0	Large fall.	·01·2	„ „
18 and 19	·00·6	„ „	·01·0	„ „
19 and 20	·00·2	Small rise, except in August.	·00·3	Variable.
20 and 21	·00·4	Large rise.	·00·4	Rise, except in February.
21 and 22	·00·5	„ „	·00·2	Rise, except in February and November.
22 and 23	·00·4	„ „	·00·5	Large rise, except in December.
23 and Noon	·00·3	Rise, except in May and September.	·00·6	Large rise, except in March and November.

TABLE CII.—*Mean Hourly Values of Calculated Dip diminished by the Monthly Mean, as well as the Mean Hourly Change, for each Hour of Göttingen Mean Time.*

Göttingen Mean Solar Time.	MONTHS 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Noon.	−0°00′3	−0°00′7	−0°00′4	0°00′1	0°00′2	0°00′5	0°00′1	−0°00′1	0°00′4	0°00′8	−0°01′6	−0°00′1	H. M. 4 12 P. M.
1	− ·00·3	− ·00·5	− ·00·6	− ·00·1	·00·1	·00·4	− ·00·2	− ·00·2	·00·3	·00·8	− ·00·4	·00·3	5 12 „
2	·00·1	− ·00·2	− ·00·3	− ·00·1	− ·00·3	·00·0	− ·00·4	− ·00·4	·00·1	·00·6	− ·00·1	·00·6	6 12 „
3	·00·1	− ·00·2	− ·00·3	− ·00·1	·00·1	− ·00·1	− ·00·6	− ·00·4	·00·1	·00·6	·00·2	·00·5	7 12 „
4	·00·1	·00·0	− ·00·5	− ·00·1	− ·00·2	− ·00·1	− ·00·5	− ·00·3	·00·1	·00·3	·00·1	·00·3	8 12 „
5	·00·3	− ·00·1	− ·00·1	·00·1	− ·00·2	·00·0	− ·00·6	− ·00·1	− ·00·1	·00·4	·00·2	·00·4	9 12 „
6	·00·1	− ·00·2	− ·00·2	·00·1	− ·00·2	·00·0	− ·00·5	·00·0	− ·00·2	·00·0	·00·5	·00·3	10 12 „
7	·00·0	·00·0	·00·2	·00·1	− ·00·4	− ·00·1	− ·00·5	·00·2	− ·00·3	− ·00·1	·00·4	·00·4	11 12 „
8	·00·0	·00·1	·00·1	− ·00·1	·00·1	− ·00·1	− ·00·4	·00·2	− ·00·4	− ·00·3	·00·1	·00·0	Midnight.
9	·00·1	− ·00·1	·00·1	·00·2	·00·3	− ·00·1	− ·00·1	·00·2	− ·00·5	− ·00·3	·00·0	·00·0	1 12 A. M.
10	·00·1	− ·00·1	·00·3	·00·4	·00·4	·00·0	− ·00·1	·00·3	− ·00·5	− ·00·6	·00·0	− ·00·2	2 12 „
11	·00·2	− ·00·1	·00·4	·00·3	·00·2	·00·0	·00·1	·00·4	− ·00·6	− ·00·6	− ·00·1	− ·00·2	3 12 „
12	·00·1	− ·00·1	·00·4	·00·3	·00·1	·00·2	·00·1	·00·4	− ·00·7	− ·00·8	− ·00·1	− ·00·3	4 12 „
13	− ·00·1	·00·0	·00·3	·00·4	·00·3	·00·3	·00·4	·00·6	− ·00·7	− ·00·8	− ·00·1	− ·00·3	5 12 „
14	− ·00·1	− ·00·2	·00·3	·00·3	·00·9	·00·5	·00·1	·00·9	− ·00·7	− ·01·1	− ·00·3	− ·00·5	6 12 „
15	·00·1	·00·2	·00·2	·00·7	·00·5	− ·00·4	·00·1	·00·7	− ·00·4	− ·01·2	− ·00·3	− ·00·2	7 12 „
16	·01·1	·01·3	·00·3	− ·00·3	− ·01·6	− ·00·4	·00·1	·00·5	− ·00·2	− ·01·0	·00·0	·00·5	8 12 „
17	·01·4	·01·4	·00·2	− ·01·1	− ·00·8	− ·00·5	·00·0	− ·00·2	− ·00·2	− ·00·4	− ·00·1	·00·4	9 12 „
18	·00·7	·01·1	− ·00·2	− ·00·3	− ·00·7	− ·00·5	− ·00·1	− ·00·2	·00·2	·00·1	− ·00·1	·00·6	10 12 „
19	− ·00·1	·00·5	− ·00·1	− ·00·8	− ·00·5	− ·00·4	·00·3	− ·00·2	·00·7	·00·6	·00·0	·00·0	11 12 „
20	− ·00·6	− ·00·4	− ·00·2	− ·00·6	− ·00·3	− ·00·4	·00·2	− ·00·5	·00·8	·00·7	·00·2	·00·3	Noon.
21	− ·00·9	− ·00·8	− ·00·1	− ·00·2	·00·1	− ·00·4	·00·1	− ·00·7	·00·7	·00·8	·00·4	·01·1	1 12 P. M.
22	− ·00·9	− ·01·2	·00·0	− ·00·2	·00·4	·00·2	·00·3	− ·00·6	·00·7	·00·9	− ·00·0	·00·8	2 12 „
23	− ·01·0	− ·01·3	·00·4	·00·1	·00·5	·00·1	·00·2	− ·00·5	·00·8	·01·0	− ·00·1	− ·00·6	3 12 „

TABLE CIII.—*Showing, for each Month, the Mean Diurnal Inequality of Calculated Dip, as obtained by taking the Monthly Sums and Means of the Numbers in the preceding Table, without regard to their Signs.*

Months, 1857.	Monthly Sums.	Mean Diurnal Inequality.	FOR SEASONS.
January	0°08·8	0°00·4	Mean of {Jan. Feb. Mar. / Oct. Nov. Dec.} or Winter.... 0°00·4
February	·10·8	·00·5	
March	·06·2	·00·3	
April	·07·6	·00·3	Mean of {April, May, June, / July, Aug. Sept.} or Summer.. 0·00·3
May	·09·4	·00·4	
June	·05·7	·00·2	
July	·06·1	·00.3	Mean of the year.... 0·00·4
August	·08·8	·00·4	
September	·10·4	·00·4	Greatest monthly mean, in October ..... 0·00·6
October	·14·8	·00·6	Least monthly mean, in November ..... 0·00·2
November	·05·4	·00·2	
December	·08·9	·00·4	Difference..... 0·00·4

TABLE CIV.—*Showing, for the Year* 1857, *the Mean Diurnal Inequality of the Calculated Dip, for each Hour of Göttingen Mean Time, as obtained by taking the Hourly Sums and Means of the Numbers in the Table, without regard to their Signs.*

Göttingen Mean Time.	Bombay Civil Time.	Hourly Sums.	Mean Hourly Inequality.	FOR DAY AND NIGHT.
	H. M.			
Noon.	4 12 P. M.	0°05'3	0°00'4	
1	5 „	·04·2	·00·4	
2	6 „	·03·2	·00·3	
3	7 „	·03·3	·00·3	Mean of {2, 3, 4, 5, 6, 7, / 8, 9, 10, 11, 12, 13,} or Night..... 0°00'3
4	8 „	·02·6	·00·2	
5	9 „	·02·6	·00·2	
6	10 „	·02·3	·00·2	Mean of {14, 15, 16, 17, 18, 19, / 20, 21, 22, 23, 0, 1,} or Day..... 0·00·5
7	11 „	·02·7	·00·2	
8	0 12 A. M.	·01·9	·00·2	Mean .... 0·00·4
9	1 „	·02·0	·00·2	
10	2 „	·03·0	·00·3	
11	3 „	·03·2	·00·3	
12	4 „	·03·6	·00·3	
13	5 „	·04·3	·00·4	
14	6 „	·05·9	·00·5	
15	7 „	·05·0	·00·4	TIMES OF MEAN MAXIMUM AND MINIMUM.
16	8 „	·07·3	·00·6	
17	9 „	·06·7	·00·6	Greatest Inequality about 8 A. M.
18	10 „	·05·3	·00·4	Least Inequality about Midnight.
19	11 „	·04·2	·00·4	
20	0 12 P. M.	·05·2	·00·4	
21	1 „	·06·3	·00·5	
22	2 „	·06·2	·00·5	
23	3 „	·06·6	·00·5	

TOTAL INTENSITY OF THE EARTH.

This element was deduced from Horizontal Intensity and Dip, both corrected for Instrumental Errors.

The values of total Force thus obtained were further corrected for the effects of External and Free Air, the correction being the same as for Horizontal Intensity.

TABLE CV.—*Showing, for each Month, the Mean Value of Total Intensity; and its Periodic Changes from the Mean of the Year.*

Months, 1857.	Mean Monthly Value of Total Intensity.	Difference from the Mean of the Year.	FOR SEASONS.	
	En. Un.	En. Un.		En. Un.
January	8·480	− 0·013		
February.....	·485	− 0·008	Mean of {Jan. Feb. March, / Oct. Nov. Dec.} or Winter.....	8·492
March.....	·492	− 0·001		
April	·495	0·002		
May.....	·493	0·000	Mean of {April, May, June, / July, Aug. Sept.} or Summer	8·495
June.....	·499	0·006		
July.....	·499	0·006	Mean of the Year.....	8·493
August.....	·491	− 0·002		
September	·492	− 0·001	Greatest monthly mean, in December	8·501
October	·495	0·002	Least monthly mean, in January.....	8·480
November	·497	0·004		
December	·501	0·008	Difference.....	0·021

TABLE CVI.—*Showing, for the Year* 1857, *the Mean Values of Total Intensity, for each Hour of Göttingen Mean and Bombay Civil Time; and also its Diurnal Changes from the Mean of the Year.*

Göttingen Mean Time.	Bombay Civil Time.	Mean Hourly Value of Total Intensity.	Difference from the Mean of the Whole.	FOR DAY AND NIGHT.	
	H. M.	En. Un.	En. Un.		
Noon.	4 12 P. M.	8·494	0·001		
1	5 12 „	·491	− 0·002		
2	6 12 „	·489	− 0·004		En. Un.
3	7 12 „	·488	− 0·005	Mean of {2, 3, 4, 5, 6, 7, / 8, 9, 10, 11, 12, 13,} or Night	8·489
4	8 12 „	·488	− 0·005		
5	9 12 „	·487	− 0·006		
6	10 12 „	·488	− 0·005	Mean of {14, 15, 16, 17, 18, 19, / 20, 21, 22, 23, 0, 1,} or Day	8·498
7	11 12 „	·488	− 0·005		
8	0 12 A. M.	·489	− 0·004		
9	1 12 „	·490	− 0·003	Mean.....	8·493
10	2 12 „	·490	− 0·003		
11	3 12 „	·490	− 0·003		
12	4 12 „	·490	− 0·003		
13	5 12 „	·490	− 0·013		
14	6 12 „	·491	− 0·002		
15	7 12 „	·492	− 0·001		
16	8 12 „	·495	0·002	TIMES OF MEAN MAXIMUM AND MINIMUM.	
17	9 12 „	·499	0·006	G.M.T. B.C.T.	
18	10 12 „	·502	0·009	A Maximum between 19 and 20, or 11 A. M. Noon.	
19	11 12 „	·504	0·011	A Minimum at about 5, or 9 P. M.	
20	0 12 P. M.	·504	0·011		
21	1 12 „	·502	0·009		
22	2 12 „	·500	0·007		
23	3 12 „	·497	0·004		

TABLE CVII.—*Showing, for each Month, the Mean Value of Total Intensity, corrected for the Effects of External and Free Air; and its Periodic Changes from the Mean of the Year.*

Months, 1857.	Mean Monthly Value of Total Intensity.	Difference from the Mean of the Year.	FOR SEASONS.
	En. Un.	En. Un.	
January	8·489	−0·004	Mean of {Jan. Feb. Mar. / Oct. Nov. Dec.} or Winter.... 8·495
February	·489	−0 004	
March	·489	−0·004	
April	·490	−0·003	Mean of {April, May, June, / July, Aug. Sept.} or Summer. 8·491
May	·483	−0·010	
June	·493	0·000	
July	·496	0·003	Mean of the Year.... 8·493
August	·492	−0·001	
September	·494	0·001	Greatest monthly mean, in December.... 8·510
October	·494	0·001	Least monthly mean, in May ..... 8·483
November	·501	0·008	
December	·510	0·017	Difference.... 0·027

TABLE CVIII.—*Showing, for the Year* 1857, *the Mean Value of Total Intensity, corrected for the Effects of External and Free Air, for each Hour of Göttingen Mean and Bombay Civil Time; and also its Diurnal Changes from the Mean of the Year.*

Göttingen Mean Time.	Bombay Civil Time.	Mean Hourly Value of Total Intensity corrected.	Difference from the Mean of the Whole.	FOR DAY AND NIGHT.
	H. M.	En. Un.	En. Un.	
Noon.	4 12 P. M.	8·419	−0·075	
1	5 12 „	·443	− ·051	
2	6 12 „	·473	− ·021	
3	7 12 „	·486	− ·008	En. Un.
4	8 12 „	·498	·004	Mean of {2, 3, 4, 5, 6, 7, / 8, 9, 10, 11, 12, 13,} or Night.. 8·055
5	9 12 „	·508	·014	
6	10 12 „	·520	·026	
7	11 12 „	·526	·032	
8	0 12 A. M.	·537	·043	Mean of {14, 15, 16, 17, 18, 19, / 20, 21, 22, 23, 0, 1,} or Day.. 8·463
9	1 12 „	·541	·047	
10	2 12 „	·546	·052	
11	3 12 „	·551	·057	Mean..... 8·494
12	4 12 „	·557	·063	
13	5 12 „	·559	·065	
14	6 12 „	·561	·067	
15	7 12 „	·545	·051	TIMES OF MEAN MAXIMUM AND MINIMUM.
16	8 12 „	·516	·022	
17	9 12 „	·491	− ·003	G.M.T. B.C.T.
18	10 12 „	·470	− ·024	A Maximum at about 14 or 6 A.M.
19	11 12 „	·448	− ·046	A Minimum at about 23 or 3 P.M.
20	0 12 P. M.	·430	− ·064	
21	1 12 „	·417	− ·077	
22	2 12 „	·410	− ·084	
23	3 12 „	·409	− ·085	

SUMMARY OF THE MAGNETIC RESULTS.

THE following lines on the Summary of Results will show at a glance the general characteristics of all the magnetic elements during the year 1857 :—

DECLINATION.

Mean daily Values of Declination dwindle between 20′6 and 17′5. The difference between the mean daily values of two consecutive days never exceeds 2′0, but generally remains between 0′1 and 0′5.

Mean Declination, in simple hourly observations, was not above 22′4, or below 13′9.

The Mean Annual Declination was 19′28, being about 0·36 higher than the mean Declination of the last year.

Daily Range of Declination never exceeds 10′0 of arc, but generally remains between 1′0 and 6′0.

The times of minima and maxima occur generally at about + 24h. — 2h. + 10h. — 13h. + 16h. — 20h.; in which + denotes maximum, and — minimum.

The combination of observations taken at noon and 1h. and 6h., 17h. and 18h., and 1h. and 2h., will give the results near enough to the mean value for any day.

Declination Magnet goes four times on each side of its mean position in Winter, but only twice in Summer; and in the months of March and October six meridian passages are observed in the diurnal run of the Declinometer.

A fall in Declination is generally observed between noon and 3h.; a rise between 3h. and 8h.; a fall between 8h. and 14h.; a rise between 14h. and 16h.; a fall between 16h. and 20h.; and afterwards a slow rise.

Declination was most irregular in November, February, and September, but least so in April and October; greatest irregularity was observed at 14h. and 15h., and least at 7h. and 8h.

HORIZONTAL FORCE.

The mean daily Values of Horizontal Intensity during the year did not exceed 8·05 English Units, nor were they less than 7·974 English Units. The difference between the mean daily values of two consecutive days did not exceed 0·050 English Units, but was generally less than 0·006 English Units.

During the year 1857 the extreme values of Horizontal Force, in simple hourly observations, were 8·0546 and 7·9312 English Units.

Mean Annual Intensity was 8·0252 English Units, being about 0·0084 English Units higher than the mean of the last year.

Daily range of Horizontal Force does not exceed 0·078 English Units, but generally remains between 0·012 and 0·028 English Units. The mean monthly range was always greater than 0·02 English Units.

The times of maxima and minima were — 5h. + 10h. — 11h. + 19h.; the sign + denotes maxima, and — minima.

The combination of observations taken at noon and 1h., and 15h. and 16h., will give results near enough to the true mean of any day.

It was observed that the Horizontal Force Magnet generally passed its mean magnetic position twice in a day, but in certain instances it took more than two passages.

Absolute Values of Intensity were falling from noon to 5h., rising from 5h. to 19h., and afterwards falling again to the close of the day.

The movements of Horizontal Force Magnet were more regular in May and August than in any other months in the year; while in the months of February, March, and April they were most irregular. The movements were more regular before sunrise, and most disturbed at about mid-day.

The Intensity obtained from the Scale Reading of Horizontal Force is corrected for the temperature of circumambient air, which is supposed to have some slight effect on the movements of the Horizontal Force Magnet.

If the Values of Horizontal Force, corrected for Air Temperature, be projected into a curve, it will nearly resemble the curve of the Declinometer.

VERTICAL FORCE.

Mean daily values of Vertical Intensity during this year were not greater than 2·818 English Units, nor were less than 2·740 English Units, the difference between the mean daily values of two consecutive days did not exceed 0·031 English Units, and was generally less than 0·006 English Units.

It appears, from the simple hourly observations, that the Vertical Intensity ranges between 2·821 and 2·736 English Units.

Mean Annual Intensity was 2·7779, being about 0·0135 lower than the mean of the last year.

Daily range of Vertical Intensity did not exceed 0·030 English Units; and in most instances it was less than 0·015 English Units.

The times of maxima and minima were — 2h. + 15h. — 20h. + 22h., in which + denotes maxima, and — minima.

The Vertical Force Magnet generally goes twice daily on each side of its mean position, the hours being 7h. and 18h.

In Winter the Scale Readings of Vertical Force generally increase from 2h. to 14h., decrease from 15h. to 19h., increase from 20h. to 23h., and decrease from 24h. to 2h.; in Summer they increase from 1h. to 16h., and decrease from 17h. to 24h.

The movements of Vertical Force Magnet were more regular in Winter than in Summer.

The movements of Vertical Force Magnet were more regular in March and June, and were most irregular in the months of August, September, and October.

The movements of Vertical Force were more regular after sunset, and were more disturbed after sunrise; at 6h. and 9h. A. M., and 2h. and 3h. P. M., they were most disturbed.

DIP.

Mean daily values of Dip during this year were not greater than 19°21′5, nor less than 18°53′0. The difference between the mean daily values of two consecutive days did not exceed 12′0 and was generally less than 5′0.

It appears, from the simple hourly observations, that the deduced Dip ranges between 19°26, and 18°5′0.

Mean Annual Dip was 19°6′6, which was about 5′2 lower than the mean Dip of the last year.

The daily range of deduced Dip did not exceed 13′0, and was in most cases less than 8′0.

The times of maxima and minima were + 23h. or 24h. — 1 or 2h. + 15h. — 19h.; in which + denotes maxima, and — minima.

Observations of Dip taken at 4h. or 17h. will give the approximate result to the mean value of any day.

In the diurnal variations of deduced Dip in Summer, a rise in value is generally observed from 1h. to 16h., and a fall between 16h. and 20h., and afterwards a rise: in Winter, a fall is observed in the values of Dip between 16h. and 20h., and in the remaining hours of the day a general rise.

The Values of Dip appear to be more regular in the months of November and June; and were most irregular in October.

The Inequality Table shows that the values of deduced Dip were most regular at about midnight, but were most disturbed after sunrise and afternoon.

TOTAL INTENSITY.

A single maximum and one minimum were apparent in the diurnal fluctuations of Total Force. If the mean total force of any day is to be ascertained from two observations of Magnetometers taken daily, the time considered as best for doing so is noon and 15h., Göttingen Time.

The mean annual total Force of the Earth was 8·493 English Units, which was about 0·040 higher than the mean annual force of the last year.

The following remarks have been abstracted from the mean values of Magnetic elements given in the preceding pages. Assuming the values given in the preceding tables as correct, the following remarks will show the general character of all the Magnetic elements.

From the constancy of the mid-day maximum of Horizontal Force and minimum of Declination, it would appear that the magnetism of the Earth is affected by solar heat.

The changes of the magnetic elements which occur during the daytime are quite perceptible, but those of the night are not so. This also proves that the magnetism of earth is affected by solar heat.

DIURNAL CHANGES.

In the following figures ∓ denotes maximum, and the sign — denotes minimum:—

Declination	+24	-2	+6	-7	+9	-14	+17	-20
Horizontal Force....	-24	+2	-3	*	*	+14	-15	+18
Vertical Force.....	*	*	-2	*	*	+15	-20	+22
Dip (deduced)	+23	-2	*	*	*	*	+15	-19
Total Force	*	*	-5	*	*	*	*	+19

TABLE CIX.—*Showing the Changes of the Magnetic Elements, during the Year* 1857, *reduced from the separate Results of each Element in the preceding pages.*

The Five Magnetic Elements.	Diurnal Ranges.			Periodical Changes.			Difference of Absolute Values between Day and Night.		
	Summer.	Winter.	Mean Range.	Mean Value in Summer.	Mean Value in Winter.	Annual Mean.	Mean Value for Day.	Mean Value for Night.	Difference.
Declination (in arc)	4'408	1'720	3'064	19'297	19'255	19'276	19'263	19'334	0'071
Horizontal Force, in English Units.	0·0111	0·0155	0·0133	8·0220	8·0284	8·0252	8·0264	8·0241	0·0023
Vertical Force, in English Units..	0·0071	0·0065	0·0068	2·7834	2·7724	2·7779	2·7779	2·7780	0·0001
Dip deduced (in arc).....	0·04·4	0·03·8	0·04·1	19·08·2	19·05·0	19·06·6	19·06·0	19·07·2	0·01·2
Total Force, in English Units	*	*	0·017	8·495	8·492	8·493	8·498	8·489	0·009

It appears from the table that the diurnal ranges of all the magnetic elements, except the Horizontal Force, were larger in Summer than in Winter; mean values of all the magnetic elements, except the Horizontal Force, were larger in Summer than in Winter. The mean hourly values of all the elements, except Horizontal Force and Total Force, were larger at night than by day.

MAGNETIC DISTURBANCES.

Observations having been made on all occasions of magnetic disturbances, it is intended to devote a separate description for those days on which they took place.

All the magnetic disturbances, whether large or small, have the effect of increasing the Declination and of lessening the Horizontal Force. Vertical Force is not much affected by Disturbing Force.

During the year 1857 the number of days which were considered as abnormal were nine, and they are used in resolving the effects of the Disturbances.

TABLE CX.—*Showing the Absolute Values of Declination and Horizontal Force, when the Disturbing Force was greatest on each Magnetometer.*

Months & Date, 1857.	Declination.				Horizontal Force.					
	Göttingen Mean Time, when the Disturbance was greatest.	Absolute Value, greatest.	Normal Mean.	Effects of Disturbances.	Göttingen Mean Time, when the Disturbance was greatest.	Scale Reading.	Attached Thermometer.	Scale Reading corrected for Temperature.	Absolute Horizontal Intensity from Scale Reading.	Normal Mean.	Effect of the Disturbances.
	H. M.				H. M.	Sc. Dir.		Sc. Dir.	En. Un.	En. Un.	
May 7	15·45	22'168	21'759	+0'409	21·00	15·90	89°0	17·70	7·9844	8·0200	-0·0356
September.. 3	22·30	19·699	17·389	+2·310	20·30	15·61	83·4	16·29	·9937	8·0293	-0·0356
September.. 21	5·30	21·139	18·648	+2·491	5·00	17·16	79·1	16·98	·9910	8·0188	-0·0278
December .. 16	23·00	24·570	19·027	+5·553	23·45	14·55	83·0	15·15	·9767	8·0330	-0·0533
December .. 17	3·00	24·502	19·163	+5·339	1·15	13·30	79·0	13·10	·9447	8·0295	-0·0848
December .. 27	23·45	19·013	19·378	- 0·365	23·45	16·99	82·8	17·55	8·0166	8·0251	-0·0085

TABLE CXI.—*Showing the Disturbed, as well as the Normal, Values of Magnetic Elements on the days of Magnetic Disturbances.*

1857.	Easterly Declination.			Horizontal Intensity.			Vertical Intensity.			Dip deduced.			Total Intensity.		
	Disturbed Value.	Normal Value.	Difference.	Disturbed Value.	Normal Value.	Difference.	Disturbed Value.	Normal Value.	Difference.	Disturbed Value.	Normal Value.	Difference.	Disturbed Value.	Normal Value.	Difference.
				En. Un.	En. Un.	En. Un.	En. Un.	En. Un.	En. Un.				En. Un.	En. Un.	En. Un.
May 7	18·5	19·6	−1·1	8·000	8·019	−·019	2·770	2·774	−·004	19°02	19°01	+0°01	8·463	8·485	−0·022
September.. 2	19·3	18·9	0·4	·010	·023	−·013	·790	·784	·006	·11	·09	+0·02	·481	·493	−0·012
September.. 3	19·4	18·9	0·5	·011	·023	−·012	·791	·784	·007	·13	·09	+0·04	·484	·493	−0·009
September.. 21	19·7	18·6	1·1	·012	·023	−·011	·774	·785	−·011	·07	·10	−0·03	·480	·494	−0·014
December .. 16	18·6	19·0	−0·4	·035	·036	−·001	·795	·788	·007	·13	·12	+0·01	·509	·509	0·000
December .. 17	20·6	19·0	1·6	7·998	·036	−·018	·798	·788	·010	·21	·12	+0·09	·477	·509	−0·032
December .. 18	19·9	19·0	0·9	8·020	·036	−·016	·799	·788	·011	·17	·12	+0·05	·497	·508	−0·011
December .. 27	19·3	19·3	0·0	·028	·033	−·005	·780	·775	·005	·08	·06	+0·02	·498	·501	−0·003
December .. 28	19·4	19·3	0·1	·019	·033	−·014	·780	·775	·005	·09	·06	+0·03	·489	·501	−0·012

TABLE CXII.—*Showing the Mean Effects of the Disturbances on the several Magnetic Elements, compared with their Mean Effects on Horizontal Intensity.*

Horizontal Intensity in English Units.	Declination.	Vertical Intensity in English Units.	Dip.	Total Intensity.	Number of Observations.
−0·048	+1·6	+0·010	+0·09	+0·032	1
−0·018	+1·0	+0·003	+0·03	−0·017	2
−0·012	+0·5	+0·002	+0·01	−0·012	4
−0·005	+0·0	+0·005	+0·02	+0·003	1
−0·001	−0·1	+0·007	+0·01	−0·000	1

Since, in nearly all the Magnetic Disturbances, the different magnetic elements are affected nearly in the same proportion, it is inferred that the disturbing magnetic pole is situated in one place, and that that place is not coincident with the Earth's magnetic pole. The Disturbing Pole thus acquires or loses its magnetic polarity.

The place is easily determined, and the above inferences established, by applying the equations given in the observations of Magnetic Disturbances by Col. Sabine, Part I., 1840-41, page 19, to the first three lines in Table CXII. We thus obtain the following situations of the disturbing Pole, x and ψ being assumed to be 8°03 and 0°19 respectively.

TABLE CXIII.—*Showing the Declination and the Inclination of the Disturbing Pole, as obtained from the first three lines of Table CXII.*

$\delta\psi$	δx	δz	ψ	θ	f
	En. Un.	En. Un.			
1·6	0·048	0·010	4°4′8	11°4′4	0·049
1·0	·018	·003	7·44	9·23	·019
0·5	·012	·002	5·53	9·26	·012

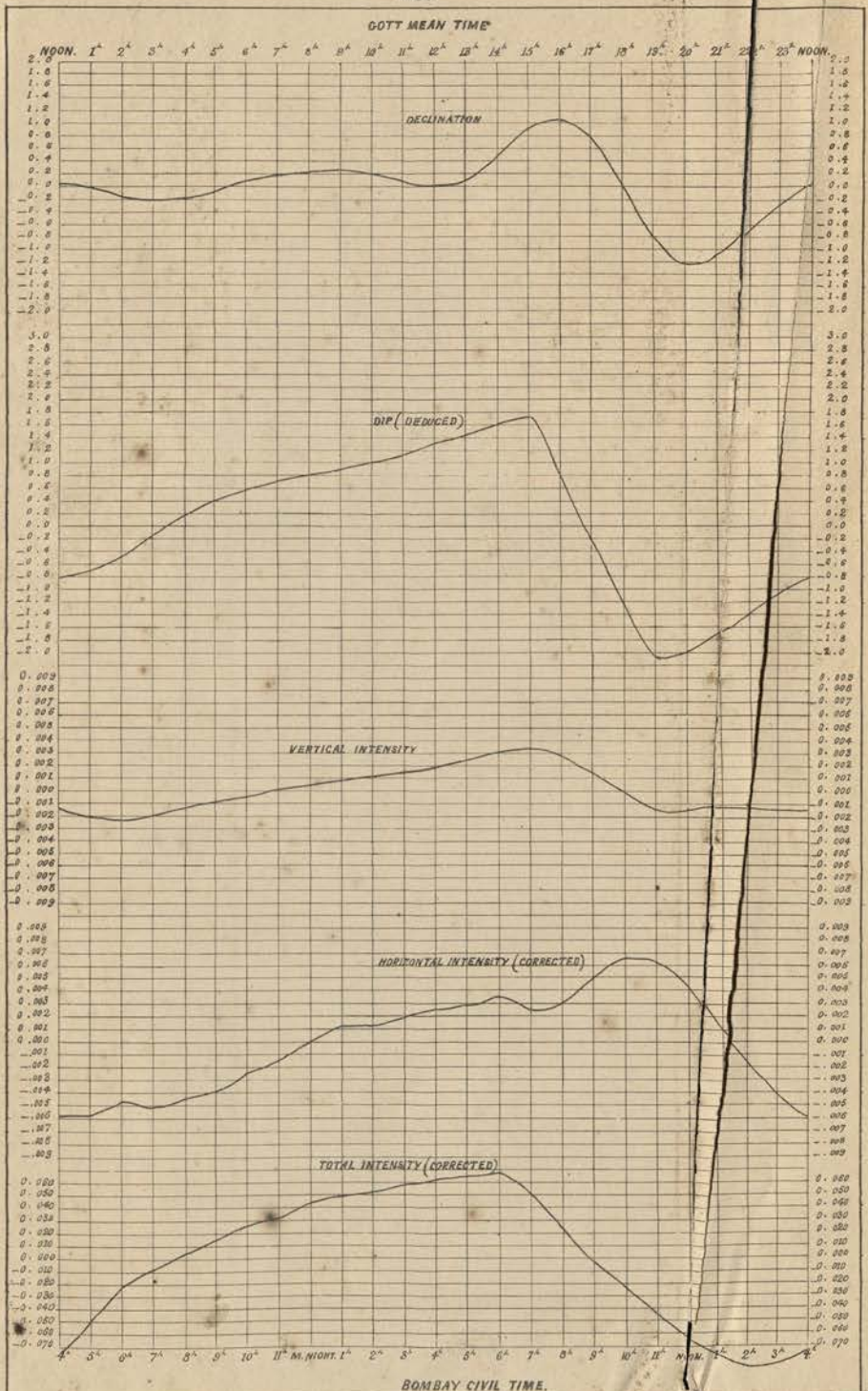
The mean position of the Disturbing Pole is—

Declination of Disturbing Pole, 6°0′8

Inclination of Disturbing Pole, 10°11

DIURNAL CHANGES OF THE MAGNETIC ELEMENTS.

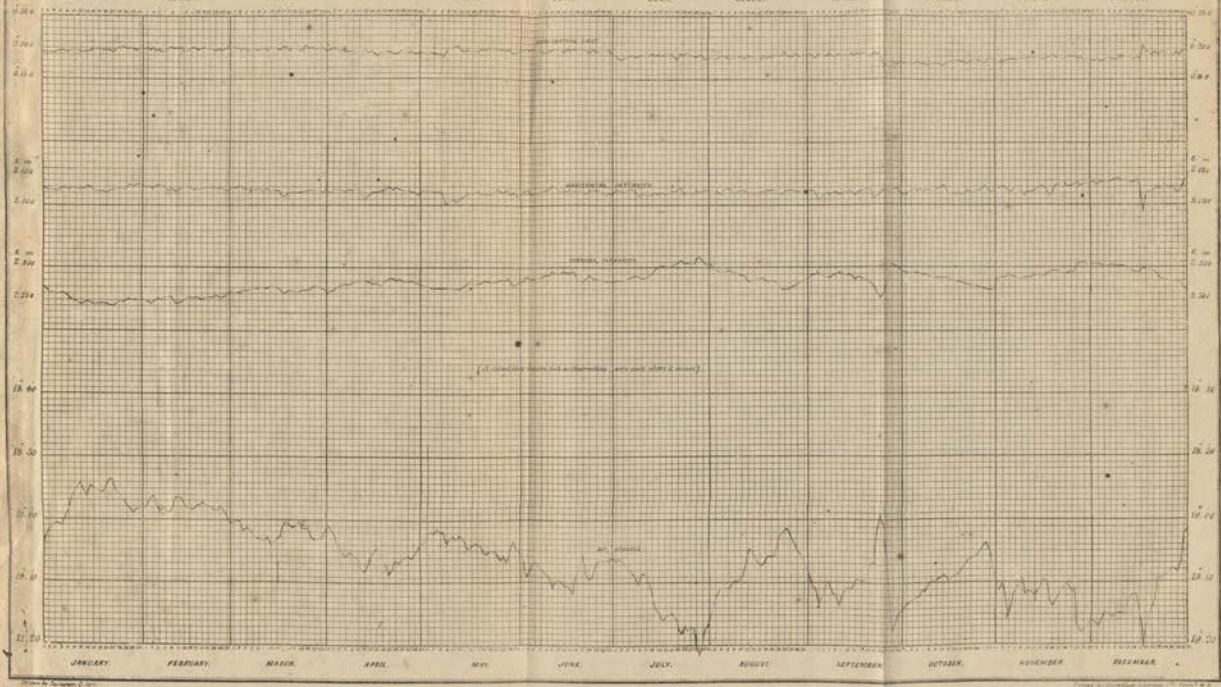
1857


GOTT MEAN TIME
NOON. 1h 2h 3h 4h 5h 6h 7h 8h 9h 10h 11h 12h 13h 14h 15h 16h 17h 18h 19h 20h 21h 22h 23h NOON.
DECLINATION
DIP (DEDUCED)
VERTICAL INTENSITY
HORIZONTAL INTENSITY (CORRECTED)
TOTAL INTENSITY (CORRECTED)
4h 5h 6h 7h 8h 9h 10h 11h M. NIGHT. 1h 2h 3h 4h 5h 6h 7h 8h 9h 10h 11h NOON. 1h 2h 3h 4h
BOMBAY CIVIL TIME.

Drawn by Jeevanram C. Sett.

Carved by Govindram Laxman 1st Assist. M. D.

Curves exhibiting the principal Magnetical Phenomena, in the Year 1857



BOMBAY MAGNETICAL OBSERVATORY.

PART II.

METEOROLOGICAL OBSERVATIONS.

1857.

INTRODUCTION TO THE METEOROLOGICAL OBSERVATIONS

FOR 1857.

BAROMETERS.

THROUGHOUT the year 1857 two Standard Barometers (by Newman, of London), marked Nos. 58 and 48, were observed, and the observations of each were duly registered. As both Barometers are exactly of the same construction, and are fixed side by side, in wooden brackets, to the east wall of the Magnetic Observatory, a description of Barometer No. 58, as given in the Volume for 1852, will answer for both instruments.

The observations show that both Barometers acted simultaneously throughout the year; and that each reading of Barometer No. 48 is about 0·013 higher than each reading of No. 58, consequently no results were deduced from the former Barometer.

TABLE.—*Showing the Mean Height of Barometers, Nos.* 48 *and* 58, *corrected for Temperature of Mercury and Brass.*

Months.	Mean Height of Barometer.			Months.	Mean Height of Barometer.		
	No. 48.	No. 58.	Difference.		No. 48.	No. 58.	Difference.
January	29·944	29·930	0·014	July	29·663	29·649	0·014
February	·882	·869	·013	August	·694	·681	·013
March	·844	·831	·013	September	·824	·811	·013
April	·804	·790	·014	October	·870	·857	·013
May	·749	·735	·014	November	·931	·918	·013
June	·653	·640	·013	December	·994	·981	·013

The verticality of the Barometer is frequently examined.

The height of the surface of the mercury in the cistern above the floor of the Magnetic Observatory is 4 feet 6 inches, and above the mean level of the sea 37·5 feet. This measurement is founded upon levellings made by Professor Pole, of the Elphinstone Institution, in 1845.

Every observation of the Barometer has been corrected for Temperature to 32° Fahr., by the application of the corrections contained in the "Tables for Barometers whose Scales are engraved upon Brass," as given in the "Royal Society's Report for 1840."

THERMOMETERS.

All the Thermometers during the year 1857 were observed within a shed, which is about 38 feet distant from the SE. angle of the Large Magnetic Observatory. The construction of the shed is described in the Volume for 1852.

The Temperature of the Air was determined by one of Newman's Standard Thermometers. It is suspended from the roof of the shed to about five feet above the ground; a table is placed under it, with a view of preventing any radiation from the surface of the ground affecting its bulb.

The Temperature of the stratum of air in contact with the ground was measured by a common bath Thermometer; it has a brass scale divided to two degrees. The length of 10 degrees is 0·32 inch. Its bulb is 0·41 inch in diameter, and lies exposed to the free currents of air within the Thermometer shed.

The comparisons made during the year 1857 between the bath Thermometer and the Observatory Standard showed that the readings of the former between 60° and 90° were lower than the readings of the latter by about 1°8.

THERMOMETER SUPPOSED TO MEASURE THE AIR CONFINED IN THE OBSERVATORY is the Thermometer attached to the Large Horizontal Force Magnetometer. The bulb is within the box; and it is therefore supposed to measure the Temperature of the confined air induced from the free and external air.

THERMOMETER SUNK SIX INCHES BELOW THE SURFACE OF THE GROUND is exactly similar to that which measures the Temperature of external and free air. The place in which it is sunk is nearly in the centre of the ground, within the Thermometer shed; the soil about it is composed of red earth and a portion of decomposed trap gravel.

THERMOMETERS SUNK TWENTY AND SIXTY INCHES BELOW THE SURFACE OF THE GROUND are Mercurial Thermometers, by Newman, the construction of which is given in the Introduction to the Volume for 1851, page v.

WET BULB THERMOMETER.—The Temperature of Evaporation was observed with one of the bulbs of Newman's Wet Bulb Thermometer, which is described in the Volume for 1854. A gauze-wire cover is placed over the instrument to prevent birds, &c. disturbing the instrument from the water which is placed near it.

From the Temperature of External and Free Air, and the Temperature of Evaporation, the following quantities have been deduced:—

1. Pressure of Moisture.
2. Humidity of Air.
3. Temperature of Dew-Point.
4. Weight, in grains, of a cubic foot of Air.

5. Weight, in grains, of Moisture in a cubic foot of Air.
6. Weight required for complete saturation of a cubic foot of Air.
7. Pressure of Dry Air.
8. Evaporation.

The following Table, from which these different quantities were found, has been extracted principally from the Introduction to the Greenwich Magnetical and Meteorological Observations of 1845, and from Hygrometric Tables published by Professor Orlebar in 1846:—

Temperature, Fahr.	Force of Vapour corresponding to the Temperature, Fahr.	Weight of a Cubic Foot of Common Air.			Weight of Moisture in a Cubic Foot of Air.		
		Weight.	Correction.		Weight.	Correction when Weight = 10 grs.	
			Standard Barometer.	Correction.		Depression of Dew-Point.	Correction.
	in.	grs.	in.	grs.	grs.		grs.
40°	0·264	552	29·1	−20	3·1	0°	−0·0
45	0·314	546	·2	−18	3·6	2	−0·0
50	0·374	540	·3	−16	4·3	4	−0·1
55	0·442	534	·4	−14	5·0	6	−0·1
60	0·523	528	·5	−10	5·9	8	−0·2
65	0·617	522	·6	− 8	6·9	10	−0·2
70	0·726	517	·7	− 6	8·0	12	−0·2
75	0·854	511	·8	− 4	9·3	14	−0·3
80	1·001	504	·9	− 2	10·8	16	−0·3
85	1·172	498	30·0	− 0	12·5	18	−0·3
90	1·367	493	·1	+ 2	14·5	20	−0·4

1. *Pressure of Moisture.*

This quantity was determined by means of Dr. Apjohn's formula, taking the mean yearly barometric pressure = 29·8 inches:—

$$f'' = f' - d \times 0{\cdot}0114;$$

in which f'' represents the Pressure of Moisture, or the Force of Vapour at the Temperature of Dew-Point;

f' represents the Force of Vapour at the temperature of evaporation;

d represents the Depression of Wet Bulb Thermometer.

2. *Temperature of Dew-Point*

Was at once deduced from the Pressure of Moisture, for the Force of Vapour at the Dew-Point is the Pressure of Moisture.

3. *Humidity of Air*

Was found from the Pressure of Moisture and Tension of Vapour, at the temperature of external and free air, by means of the following formula $H = \frac{f''}{f}$ in which H denotes the Humidity of Air, f'' represents the force of Vapour at the temperature of Dew-Point, f represents the Tension of Vapour at temperature of the air.

4. *Weight, in Grains, of a Cubic Foot of Air*

Was determined by finding the weight at the temperature of external and free air, and correcting it for barometric height; the correction for humidity, being small, was neglected.

5. *Weight, in Grains, of Moisture in a Cubic Foot of Air*

Was derived by finding the weight of Moisture at the temperature of Dew-Point, and subtracting from it the proportional correction for the depression of Dew-Point.

6. *Weight required for complete Saturation of a Cubic Foot of Air*

Was determined by subtracting the weight of Moisture as obtained by the last method (No. 5) from the weight of Moisture at the temperature of external and free air.

7. *Pressure of Dry Air.*

If the pressure of moisture be subtracted from the height of Barometer corrected for Temperature, the remainder is considered to be the pressure of Dry Air.

8. *Evaporation.*

The mean quantity of evaporation for each day was calculated by subtracting the force of Vapour at the mean temperature of Dew-Point from the force of Vapour at the mean temperature of air for that day.

All these quantities, which have thus been calculated, are given in the Meteorological Results; a detailed account of the method of calculating these elements is given in the preceding Volumes.

As an example.—Let the temperature of air be 80°, the temperature of evaporation 72°, and the height of Standard Barometer (corrected 29·7 in.); required the different quantities.

1. Pressure of Moisture	0·684
2. Temperature of Dew-Point	68°01
3. Humidity of Air	0·68
4. Weight of a Cubic foot of Air	498 gr.
5. Weight of Moisture in a Cubic foot of Air	7·3 gr.
6. Weight of Water required for complete saturation of a Cubic foot of Air	3·5 gr.
7. Pressure of Dry Air	29·016 in.
8. Quantity of mean Evaporation in 24 hours =	0·316 in.

The Direction of Wind

Is self-registered by one of Newman's Anemometers, moved by a pendulum clock which is fixed in the western wall of the Transit-room in the Astronomical Department. The Force of Wind is also registered by a pencil, connected by means of a copper wire, &c., with a sheet of copper-plate placed immediately beneath the vane. The paper upon which the direction and force of wind are registered is changed every day at noon.

6th May 1857.—Observations were taken for ascertaining the accuracy of the force of wind indicated by the pencil which is connected with the copper-plate at the top of the instrument. The results showed that the correction was about + 0·04 for each pound of registered force, which is almost inappreciable.

The Force of the Wind on all ordinary occasions

Is measured at each hourly observation, by estimation or by Lynd's Wind-Gauge. The tube is of equal diameter with the orifice where the wind enters, and the pressure of the wind corresponding to the height at which the column of water rises is ascertained by the table given in the Report of the Committee of the Royal Society for 1840, page 84.

All high winds, such as storms, gusts, or any pressure exceeding two pounds, were taken from the register made by the pressure-plate of Osler's Self-registering Wind-Gauge.

Rain

Was measured by two Rain Gauges, marked No. 1 (Newman's) and No. 2 (Osler's).

Rain-Gauge No. 1, or Newman's, is a copper funnel, whose diameter is twelve inches; its exposed area consequently is 113 square inches. The water passes into a cylinder, and raises a copper float, to which a deal rod, graduated to 0·01 of an inch, is fixed, and held upright by means of a light brass rod placed horizontally across the upper rim of the funnel.

The Rain-Gauge No. 2 is connected with Osler's Anemometer. It is about 65 feet above the mean level of the sea, and it exposes to the rain an area of 200 square inches, as its horizontal dimensions are 10 by 20 inches. Its surface is 6 feet above the outside of the roof of the Transit-room of the Astronomical Observatory.

For a description of Rain-Gauges and the Wind Anemometers, see the Introduction to the Volume for 1848.

Weather.

The whole sky covered with clouds is estimated as 8, and the complete absence of clouds as "clear." The motion of the clouds is determined as follows: The walls of the Magnetical Observatory are in the meridian and prime vertical, so that when a cloud is passing the zenith, the observer takes his stand at one of the angles of the Observatory, and at once determines its motion relative to the position of the Observatory.

The nomenclature adopted is that of Mr. Howard, with some combinations, set down under the following symbols:—

Cirrus.	Cumulo-stratus.	Hem. Hemisphere.
Cumulus.	Nimbus.	Hor. Horizon.
Stratus.	Cirri.	Zth. Zenith.
Cirro-cumulus.	Cumuli.	H. Hour.
Cirro-stratus.	Strati.	M. Minute.
		S. Second.

TIDAL OBSERVATIONS.

These are registered by self-registering apparatus, moved by a pendulum clock, which is fixed upon a strong wooden table, in a small building to the east of the Observatory compound (enclosure), close to the sea-shore.

Underneath the wooden floor of the Tide-house is a well, 22 feet deep and 18 by 12 feet in area, in which is fixed an iron syphon pipe, and in the longer leg of this pipe moves the float in communication with the self-registering apparatus. There is always a quantity of water in this well, which oozes up through the ground at its bottom at each tide.

The water from the sea is conducted into the syphon by means of cast-iron pipes, united to each other by socket-joints, which are laid down across the shore, and extend out about 780 feet, to within a foot below the level of low-water mark.

The highest tides come up nearly to the sea wall of the Observatory compound, or within a foot of the east wall of the Tide-house. As far as the conducting pipe extends the shore is rocky and gradually descends, since the trap beds dip towards the sea in the deep channel which forms the entrance to Bombay Harbour, and which lies between Colaba and the Prongs on the west side, and the Island of Caranjah and Angria's Colaba on the east side. This gauge, therefore, indicates neither the tide of the open sea nor that of the Bombay Harbour, but something between the two.

This instrument is considered next to useless, as it works under manifold disadvantages; in some instances the air-cock goes out of order; in some the lower cock becomes sluggish in its movements by constant effect of salt water over the iron cylinder of which the cock is made; in some cases the registry is partially broken by irregular movements of the clock, which is also affected by the salt vapour.

ELECTRICAL APPARATUS.

The new Electrical House adjoins the Magnetical Observatory on the eastern side, to which communication is had by a venetian door; it is 10 feet square in the interior, and 41 feet high to the eaves of the roof; the walls are of red brick, and gradually diminish in thickness at each story as the building ascends; they are two feet thick at the first floor, and plastered both inside and out.

The house consists of three stories ascended by open ladders, with hand-rail on each floor; on the ground floor there are three windows and one door; on the first story three windows; on the second story four windows; on the third or top story three windows and a glass door, the latter opening out on a railed gallery 3 feet wide, which extends round the building on a level with the top floor. From this gallery access is had to the roof by a fixed ladder and hand-rail. The pitch of the roof is 45 feet above the ground, and the conductor 57 feet. The roof is well dammered or pitched,

and covered with numba or stout Indian felt, which is again covered over with stout canvas, painted white. On this roof there is a sloping platform of wood, to allow a person to have access to the main conductor of the Electrometer, for the purpose of adjustment, &c.

On the third flooring is placed the whole of the Electrical Apparatus on a platform of woodwork about 3 feet above the floor. This platform, which is ascended by small steps, is also intended for the observer to stand on when any extraordinary observations of Electricity are to be taken.

All explanations relative to the instruments, &c. used in the Electrometer having been given in former volumes, it is not necessary to repeat them here.

On the ground floor, which is of stone, is placed a table, surmounted by a black-wood slab of an oval form, on which a duplicate set of Electrical Apparatus stands. The principal Apparatus on the upper floor is connected with the cap of insulator of the duplicate set below by a fine copper wire; and it has been found that both sets of instruments give similar and simultaneous results. This arrangement for registering the Electricity below has proved very satisfactory, and dispenses with the observer having to go to the top of the tower for the hourly observations; but in the event of an electrical storm or phenomenon of any magnitude being experienced, the lower instrument can be disconnected from the upper set in a moment, and in that case the observations could be made at the top floor, if desirable.

To the bolt of the Spark Measure of the upper set of instruments is fixed a copper wire, which passes down by the east wall of the house, like a lightning conductor, carried out to some distance from the building under ground, where any discharge from the wire would prove harmless.

The whole apparatus in use consists of the following instruments: two Volta Electrometers, denoted by Nos. 1 and 2; a Henly's Electrometer; a Ronald's Spark Measure; and a Bennet's Gold-Leaf Electrometer.

BOMBAY MAGNETICAL OBSERVATORY.

METEOROLOGICAL OBSERVATIONS.

1857.

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Jan. 1st–Midnight	29.868	29.262	71°8	67°0	4°8	64°4	0.79	72°0	74°8	NW	0.1					
1 a. m.	.866	.268	70.8	66.4	4.4	64.0	.80	70.7	74.7	„	0.0					
2 „	.857	.281	70.2	65.5	4.7	62.9	.79	70.4	74.6	„	0.1					
3 „	.856	.279	69·8	65.4	4.4	62.9	.80	70.2	74.4	„	0.1					
4 „	.858	.261	69.7	66.0	3.7	64.0	.83	69.8	74.3	„	0.1					
5 „	.869	.266	69.2	66.0	3.2	64.3	.85	69.8	74.3	„	0.1					
6 „	.891	.316	68.8	65.0	3.8	62.8	.83	69.2	74.1	N b W	0.1					
7 „	.910	.359	68.2	64.0	4.2	61.5	.81	68.6	73.9	„	0.0					
8 „	.949	.374	69.4	65.2	4.2	62.8	.81	70.1	73.8	„	0.0		+	4.		0.45
9 „	.959	.383	71.6	66.0	5.6	62.9	.75	72.0	73.8	„	0.0					
10 „	.955	.343	73.6	67.8	5.8	64.7	.75	73.8	73.9	„	0.0					
11 „	.931	.330	75.8	68.2	7.6	64.2	.69	75.4	74.3	„	0.0		+	2.		Above 10m.
Noon.	.894	.271	76.8	69.2	7.6	65.3	.69	76.2	74.6	„	0.1	None.			None.	
1 p. m.	.865	.240	76.4	69.1	7.3	65.4	.70	75.6	74.9	NW b N	0.1					
2 „	.845	.212	76.0	69.2	6.8	65.7	.72	75.5	75.0	„	0.2					
3 „	.841	.176	76.5	70.3	6.2	67.2	.74	76.2	75.1	„	0.1					
4 „	.852	.178	76.0	70.4	5.6	67.7	.77	75.4	75.0	NW	0.1					
5 „	.869	.200	75.2	70.2	5.0	67.4	.79	75.1	75.1	„	0.1					
6 „	.881	.186	74.7	70.6	4.1	68.6	.82	74.7	75.1	„	0.1					
7 „	.897	.192	74.4	70.8	3.6	69.0	.84	74.5	75.1	NNW	0.1					
8 „	.918	.233	70.7	70.0	3.7	68.1	.84	74.0	75.1	„	0.0					
9 „	.925	.218	73.6	70.6	3.0	69.1	.86	74.0	75.0	„	0.1					
10 „	.922	.219	73.4	70.4	3.0	69.0	.86	73.8	75.0	„	0.1					
11 „	.908	.220	72.8	69.8	3.0	68.3	.86	73.2	75.0	„	0.1					
Jan. 2nd–Midnight	.898	.198	73.0	70.2	2.8	68.8	.88	73.0	75.0	NW b N	0.0					
1 a. m.	.897	.256	71.6	68.0	3.6	66.1	.84	72.0	74.9	„	0.1					
2 „	.888	.224	72.0	68.8	3.2	67.2	.86	72.2	74.9	„	0.1					
3 „	.888	.269	71.2	67.2	4.0	65.1	.82	71.4	74.7	„	0.1					
4 „	.894	.277	70.8	67.0	3.8	65.0	.83	71.4	74.6	„	0.1					
5 „	.902	.311	70.8	66.2	4.6	63.7	.79	71.1	74.5	NNW	0.1					
6 „	.927	.333	70.0	66.0	4.0	63.8	.82	70.5	74.3	„	0.0					
7 „	.947	.321	70.0	67.0	3.0	65.4	.86	70.5	74.1	„	0.0					
8 „	.967	.310	71.3	68.4	2.9	66.9	.87	72.0	74.0	N b E	0.1					
9 „	.970	.332	75.6	69.2	6.4	66.0	.73	75.2	74.5	NE b N	0.3					
10 „	.978	.321	77.6	70.4	7.2	66.9	.71	76.6	75.0	NE	0.2					
11 „	.970	.361	78.2	69.2	9.0	64.6	.64	78.0	75.2	„	0.0	None.	None.	None.	None.	None.
Noon.	.947	.287	79.8	71.2	8.6	67.0	.66	79.2	75.4	N b W	0.0					
1 p. m.	.921	.230	79.0	71.8	7.2	68.4	.71	78.4	75.5	„	0.1					
2 „	.906	.169	80.5	73.5	7.0	70.4	.72	80.0	75.8	NNW	0.2					
3 „	.907	.184	79.1	72.7	6.4	69.8	.74	78.6	75.9	NW	0.1					
4 „	.909	.182	79.8	73.0	6.8	70.0	.73	78.8	76.2	„	0.2					
5 „	.917	.209	78.1	72.0	6.1	69.2	.75	77.5	76.3	„	0.1					
6 „	.931	.204	76.4	72.0	4.4	70.0	.81	76.2	76.2	„	0.0					
7 „	.957	.195	86.2	72.9	3.3	71.4	.86	76.1	76.1	„	0.0					
8 „	.988	.244	75.8	72.3	3.5	70.7	.85	75.9	76.1	N b W	0.0					
9 „	.995	.257	75.4	72.0	3.4	70.5	.85	75.6	76.0	NW	0.1					
10 „	.997	.293	75.2	71.0	4.0	69.0	.82	75.4	76.0	N b W	0.1					
11 „	.981	.298	74.6	70.2	4.4	68.1	.81	74.6	76.0	„	0.0					
Jan. 3rd–Midnight	.963	.221	75.0	72.0	3.0	70.6	.87	74.8	76.0	NW b W	0.0					
1 a. m.	.963	.228	75.0	71.8	3.2	70.3	.86	75.0	76.0	„	0.1					
2 „	.957	.247	74.6	71.0	3.6	69.3	.84	74.6	76.0	NNE	0.0					
3 „	.951	.241	74.6	71.0	3.6	69.3	.84	74.6	76.0	NE b N	0.1					
4 „	.959	.246	74.4	71.0	3.4	69.4	.85	74.5	75.9	„	0.1					
5 „	.975	.224	74.2	72.0	2.2	71.0	.90	74.2	75.9	„	0.0					
6 „	.998	.279	73.8	71.0	2.8	69.7	.87	74.0	75.9	„	0.0					
7 „	30.022	.308	73.6	70.8	2.8	69.4	.87	73.9	75.7	„	0.0	None.	None.	None.	None.	None.
8 „	.048	.324	74.7	71.4	3.3	69.9	.86	74.9	75.8	„	0.1					
9 „	.070	.351	75.8	71.6	4.2	69.7	.82	75.8	75.8	NE b E	0.1					
10 „	.068	.343	77.2	72.2	5.0	69.9	.79	77.2	76.0	„	0.0					
11 „	.056	.333	78.4	72.5	5.9	69.8	.75	78.2	76.3	„	0.0					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀ cirro-cumuli; ≀ cumuli; ≀ cirro-strati; ≀ cumulo-strati; and ≀ nimbi.	
8	N	Densely clouded with ≀ and ≀, the latter moving NE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 82°0.
7	L	Densely clouded with ≀ and ≀, the latter moving E.	
8	L	" " " " "	
8	L	Overcast with light ≀, moving E.	
8	L	" " " "	
8	C	Overcast with light fleecy clouds, moving W.	
8	C	" " " "	
8	C	Overcast with light fleecy clouds, moving E.	
8	C	" " " "	
8	N	" " " "	
8	N	Overcast with dense ≀ and ≀, both moving NE.	
8	N	" " " " "	
8	N	Overcast with ≀ and light ≀, both moving NE.	
8	L	Overcast with ≀ and light ≀, both moving NNE.	
8	L	" " " " "	
8	L	Overcast with ≀ and light ≀, both moving N.	
8	L	Overcast with ≀ and light ≀, both moving NE.	
8	C	Overcast with ≀.	
8	C	" "	
8	C	Nearly overcast; a break about zth.	
7	C	Overcast with ≀ and ≀; a break about zth.	
8	N	Overcast with ≀, moving N.	
8	N	Overcast with ≀; a few stars dimly visible.	
8	N	" " " "	
8	N	Overcast with ≀ and light ≀, moving N.	Mean daily Temperature of Ground 20 and 60 inches below it surface 78°0 and 82°0.
0	L	Overcast; a few stars visible to S and SE of zth.	
6	L	≀ and ≀ scattered throughout, the former moving ENE.	
7	L	Nearly overcast with ≀, moving ENE.	
2	L	Light ≀ scattered about hor.	
4	C	Light ≀ scattered about, moving E.	
6	C	≀ scattered about, moving E.	
5	C	≀ around hor.; ≀ scattered throughout, moving E; mist along W hor.	
3	C	" " " " " " " "	
3	N	≀ scattered about, moving N by E.	
4	N	≀ scattered about, moving N by E; a few patches of ≀ in S.	
8	N	≀ and ≀ scattered throughout, moving NE.	
8	N	≀, ≀, and ≀ scattered throughout; ≀ moving N.	
8	L	Overcast with dense ≀ and ≀, the latter moving ENE.	
8	L	Light ≀ along E hor.; ≀ in SE and W; ≀ scattered throughout, moving N.	
8	L	Light ≀ in E and W; ≀ scattered throughout, moving N.	
8	L	≀ and ≀ scattered throughout, the former moving N.	
8	C	≀ in E; ≀ scattered throughout, moving NNE.	
8	C	≀ scattered in W above hor.; otherwise clouded with ≀.	
8	C	≀ and ≀ scattered about, the former moving NNE.	
8	C	" " " " "	
8	N	Overcast with dense ≀ and ≀, the latter moving NE.	
8	N	" " " " "	
8	N	≀ and ≀ scattered throughout, the latter moving NE; a few stars dimly visible.	
3	N	≀ and light ≀ scattered about.	Mean daily Temperature of Ground 20 and 60 inches below it surface 78°0 and 82°0. Wind blew abnormally this day. Temperature of Dew-Point was 73°0, the highest during the month.
2	L	≀ scattered about hor.	
2	L	≀ and light ≀ scattered about hor.	
4	L	≀ and ≀ scattered about, moving NNE.	
3	L	" " " "	
3	C	≀ and light ≀ scattered about hor.	
6	C	≀ and ≀ scattered about; mist in hor.	
8	C	≀ around hor.; ≀ scattered throughout.	
8	C	Overcast with ≀ and ≀, the latter moving ENE; fog and mist in hor.	
8	N	≀ and ≀ scattered throughout, the former moving NE.	
7	N	≀ and dense ≀ scattered throughout, moving NE.	
8	N	" " " " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Jan. 3rd–Noon.	30.030	29.329	80°0	72°4	7°6	68°9	0.70	79°8	76°5	NE b E	0.0					
1 p. m.	.002	.263	83.4	74.4	9.0	70.5	.66	82.4	77.1	ENE	0.0					
2 „	29.984	.219	82.4	74.8	7.6	71.6	.71	81.2	77.2	W b N	0.1		+	2.		0.15
3 „	.976	.196	80.7	74.7	6.0	72.2	.76	80.2	77.2	„	0.2					
4 „	.976	.184	80.0	74.8	5.2	72.7	.79	79.8	77.2	NW b W	0.1					
5 „	.984	.209	78.7	74.0	4.7	72.0	.81	78.5	77.4	NW	0.0	None.			None.	
6 „	30.006	.227	77.7	73.8	3.9	72.1	.84	77.8	77.2	„	0.0					
7 „	.024	.225	77.2	74.2	3.0	73.0	.87	77.2	77.2	„	0.0				None.	
8 „	.065	.269	76.8	74.0	2.8	72.8	.88	77.0	77.2	„	0.0					
9 „	.070	.302	76.0	73.0	3.0	71.7	.87	76.1	77.0	„	0.0					
10 „	.055	.313	75.0	72.0	3.0	70.6	.87	75.5	76.9	„	0.0					
11 „	.037	.303	74.8	71.7	3.1	70.3	.87	75.2	76.8	„	0.0					
Jan. 5th–Midnight	29.992	.199	75.0	73.4	1.6	72.7	.93	75.1	76.9	NW b N	0.3					
1 a. m.	.972	.189	74.6	73.0	1.6	72.3	.93	74.6	76.7	„	0.1					
2 „	.958	.172	74.4	73.0	1.4	72.4	.94	74.4	76.6	„	0.2					
3 „	.941	.168	74.0	73.0	2.0	71.9	.91	74.2	76.5	N b W	0.1					
4 „	.947	.201	73.0	71.5	1.5	70.8	.93	73.3	76.4	„	0.1					
5 „	.949	.218	72.7	71.0	1.7	70.2	.92	73.0	76.3	„	0.1					
6 „	.967	.237	72.8	71.0	1.8	70.1	.92	73.2	76.3	„	0.1					
7 „	.996	.282	73.0	70.6	2.4	69.4	.89	73.2	76.2	NNW	0.2					
8 „	30.018	.327	72.9	69.9	3.0	68.4	.87	73.2	76.1	„	0.1					
9 „	.045	.365	74.2	70.0	4.2	67.9	.82	74.5	76.2	„	0.1					
10 „	.040	.357	75.2	70.4	4.8	68.1	.80	75.4	76.2	„	0.1					
11 „	.019	.353	76.4	70.3	6.1	67.3	.75	76.0	76.4	„	0.1	None.	None.	None.	None.	None.
Noon.	29.991	.298	76.8	71.2	5.6	68.5	.77	76.4	76.5	„	0.1					
1 p. m.	.958	.261	77.8	71.6	6.2	68.7	.75	77.0	76.7	NW	0.1					
2 „	.940	.186	78.6	73.4	5.2	71.1	.79	78.2	76.7	„	0.4					
3 „	.938	.235	78.5	72.0	6.5	69.0	.74	78.2	76.7	„	0.2					
4 „	.938	.240	77.4	71.5	5.9	68.7	.76	77.0	76.7	NW b N	0.3					
5 „	.955	.270	76.0	70.7	5.3	68.1	.78	75.6	76.7	„	0.2					
6 „	.972	.269	74.6	70.8	3.8	69.0	.84	74.7	76.6	„	0.2					
7 „	.998	.293	74.4	70.8	3.6	69.1	.84	74.2	76.5	„	0.1					
8 „	30.013	.326	74.2	70.2	4.0	68.2	.83	73.9	76.4	„	0.2					
9 „	.023	.326	73.6	70.3	3.3	68.7	.86	73.9	76.4	„	0.1					
10 „	.026	.330	73.4	70.2	3.2	68.6	.86	73.7	76.2	„	0.0					
11 „	.018	.334	72.9	69.7	3.2	68.1	.86	73.0	76.1	„	0.2					
Jan. 6th–Midnight	.017	.382	72.2	68.0	4.2	65.8	.81	72.4	75.9	NW b N	0.3					
1 a. m.	.011	.376	71.6	67.8	3.8	65.8	.83	72.0	75.7	„	0.0					
2 „	29.994	.396	70.2	66.2	4.0	64.0	.82	70.8	75.5	„	0.0					
3 „	.989	.387	69.8	66.2	3.6	64.2	.84	70.4	75.2	„	0.0					
4 „	.995	.401	70.0	66.0	4.0	63.8	.82	70.2	75.1	„	0.1					
5 „	30.016	.370	70.2	67.7	2.5	66.4	.89	70.2	75.1	NNW	0.2					
6 „	.037	.439	69.6	66.0	3.6	64.0	.84	69.4	74.8	N b W	0.3					
7 „	.068	.459	69.9	66.2	3.0	64.6	.86	69.2	74.6	„	0.2					
8 „	.100	.472	70.4	67.2	3.2	65.5	.85	70.6	74.6	„	0.1					
9 „	.104	.469	72.7	68.2	4.5	65.8	.80	72.5	74.9	„	0.1					
10 „	.102	.469	75.4	69.0	6.4	65.7	.73	74.8	75.2	„	0.1					
11 „	.077	.440	77.4	69.8	7.6	65.9	.69	76.4	75.5	NNE	0.2	None.	None.	None.	None.	None.
Noon.	.044	.498	77.8	67.2	10.6	61.3	.59	76.8	75.7	N b W	0.4					
1 p. m.	.011	.476	78.8	67.2	11.6	60.6	.56	78.0	75.7	NW	0.5					
2 „	29.995	.438	79.8	68.2	11.6	61.9	.56	78.6	76.0	„	0.5					
3 „	.995	.325	79.6	69.4	10.2	64.1	.61	78.8	76.0	„	0.7					
4 „	.999	.417	79.4	68.8	10.6	63.2	.59	78.4	76.2	„	0.3					
5 „	30.004	.415	77.3	68.3	9.0	63.5	.64	76.2	76.2	„	0.3					
6 „	.025	.452	74.8	67.0	7.8	62.9	.68	74.4	76.0	„	0.4					
7 „	.050	.485	74.4	66.6	7.8	62.3	.67	74.0	75.7	NW b N	0.6					
8 „	.075	.542	73.8	65.4	8.4	60.5	.65	73.6	75.6	NNW	0.4					
9 „	.088	.557	72.8	65.0	7.8	60.4	.67	72.7	75.5	„	0.5					
10 „	.088	.576	71.2	63.8	7.4	59.3	.68	71.2	75.3	„	0.1					
11 „	.063	.549	70.7	63.7	7.0	59.4	.69	70.8	75.1	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀ cirro-cumuli; ≀ cumuli; ≀ cirro-strati; ≀ cumulo-strati; and ≀ nimbi.	
8	N	≀ in SE; otherwise clouded with ≀ and ≀, the latter moving NE.	
8	L	" " " " " " "	
8	L	≀ in E hor.; ≀ in W; ≀ scattered throughout, moving N.	
8	L	≀ in E and SE hor.; otherwise clouded with dense ≀ and light ≀.	
8	L	Densely clouded with ≀ and light ≀; ≀ in E and SE hor.	
8	C	≀ along E hor.; otherwise clouded with ≀ and light ≀. [ble in NW.	
8	C	≀ in E hor.; ≀ and ≀ scattered throughout, moving E; a few stars dimly visi-	
8	C	Overcast with ≀ & ≀, the latter moving ENE; few stars dimly visible in E.	
8	C	" " " " " " " "	
7	C	Light ≀ and ≀ scattered throughout, the latter moving E.	
8	C	Light ≀ and ≀ scattered throughout, the latter moving ENE.	
8	C	" " " " " "	
8	C	Overcast with dense ≀ and light ≀, the latter moving NE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 82°0. Range of Temperature of Free Air was 5°9, the lowest during the month.
8	N	" " " " " " "	
8	N	" " " " " " "	
8	N	" " " " " " "	
8	N	Densely overcast with dense ≀.	
8	L	Overcast; a few stars visible about zth.	
8	L	" " " "	
8	L	Overcast with ≀; a few pieces of ≀ in E and about zth., moving N.	
8	L	Fleecy clouds around hor., otherwise clouded with dense ≀. [ENE.	
8	C	≀ in NE and E above hor., otherwise clouded with ≀ and fleecy clouds, moving	
8	C	≀ in E; dense ≀ about W hor., otherwise clouded with fleecy clouds, moving	
8	C	≀ along W hor.; ≀ scattered along E; dense fleecy clouds about zth. [ENE.	
8	L	Overcast with dense ≀ and light ≀, the latter moving NE.	
8	N	" " " " " "	
8	N	Overcast with ≀.	
4	N	Overcast with ≀ and ≀, both moving NE.	
6	N	" " " " "	
6	L	Overcast with ≀.	
6	L	" "	
7	L	Overcast; a few stars dimly visible.	
5	L	" " " "	
7	C	" " " "	
5	C	Overcast with ≀, moving ENE.	
5	C	Overcast with ≀, moving E.	
3	C	≀ scattered about, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 82°0. Standard Barometer at 9 A. M. was 30.104, the highest during the month.
6	N	≀ scattered throughout.	
4	N	≀ scattered about.	
4	N	" "	
3	N	" "	
3	L	" "	
8	L	Overcast with ≀. [hor.	
3	L	≀ from NE to SW hor.; light ≀ in E and SE above hor.; fleecy clouds in NW	
3	L	Dense ≀ from NE to SW hor.; fleecy clouds scattered about W hor.; mist in hor.	
5	C	≀ scattered about hor., moving E.	
3	C	" " " "	
2	C	" " " "	
2	C	≀ in NE and E hor.; ≀ scattered in SE, S, and SW above hor.	
2	N	≀ and fleecy ≀ scattered around hor.	
2	N	" " " "	
1	N	" " " "	
1	N	" " " "	
1	L	Dense ≀ about hor., from E to SW; mist in hor.	
0	L	A few ≀ in E, SE, and S; mist in hor.	
0	L	A few ≀ in E, SE, and S; smart gusts of wind at 7h. 15m., which lasted 25m.	
0	L	Clear.	
0	C	"	
0	C	"	
0	C	"	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Jan. 7th—Midnight	30.048	29.585	69°4	61°5	7°9	56°3	0.65	69°5	74°8	NNW	0.0					
1 a. m.	.030	.550	68.6	61.8	6.8	57.4	.69	69.2	74.6	„	0.0					
2 „	.014	.528	68.6	62.0	6.6	57.8	.70	68.6	74.5	„	0.1					
3 „	29.990	.539	67.3	59.7	7.6	55.5	.65	67.5	74.0	„	0.1					
4 „	.995	.542	66.8	60.2	6.6	55.7	.69	66.8	73.8	„	0.1					
5 „	30.003	.587	66.0	58.6	7.4	53.2	.65	66.2	73.5	„	0.1					
6 „	.011	.613	65.6	57.8	7.5	51.9	.63	65.6	73.2	„	0.1					
7 „	.030	.612	65.8	58.6	7.2	53.3	.66	66.2	73.5	„	0.1					
8 „	.052	.600	69.1	61.0	8.1	55.6	.64	69.0	73.1	„	0.1					
9 „	.069	.590	72.0	63.0	9.0	57.3	.62	71.6	73.5	NW b N	0.1					
10 „	.058	.564	75.3	64.7	10.6	58.3	.57	74.0	74.0	„	0.3					
11 „	.035	.532	76.9	65.5	11.4	58.8	.55	75.4	74.3	„	0.2					
Noon.	.008	.473	78.3	67.0	11.3	60.6	.56	76.7	74.5	NW	0.2	None.				
1 p. m.	29.975	.397	78.6	68.4	10.2	59.7	.61	77.4	74.7	„	0.2					
2 „	.955	.351	79.2	69.4	9.8	64.3	.62	78.2	75.0	„	0.2					
3 „	.944	.340	79.2	69.4	9.8	64.3	.62	78.7	75.2	„	0.4		+	1		Above 10m.
4 „	.951	.324	79.0	70.0	9.0	65.4	.65	78.0	75.4	„	0.2		+	2		0.45
5 „	.951	.315	76.4	69.4	7.0	65.9	.71	75.2	75.4	„	0.2		+	1		0.20
6 „	.956	.310	74.2	69.0	5.2	66.4	.78	74.0	75.2	„	0.2		+	2		0.25
7 „	.982	.334	74.0	69.0	5.0	66.5	.78	73.7	75.1	„	0.1		+	5		1.00
8 „	30.004	.322	74.0	70.0	4.0	68.0	.83	73.7	75.1	„	0.2		+	5		0.30
9 „	.014	.315	73.8	70.4	3.4	68.8	.85	73.6	75.1	NW b N	0.1		+	5		0.27
10 „	.003	.332	72.8	69.3	3.5	67.5	.85	72.7	75.1	„	0.0		+	22	25	0.37
11 „	29.992	.322	72.0	69.0	3.0	67.5	.87	72.0	75.0	„	0.0		+	28	20	1.07
Jan. 8th—Midnight	29.977	.291	71.8	69.4	2.4	68.2	.90	72.0	75.0	NW b N	0.0		+	13		2.47
1 a. m.	.963	.289	70.7	68.7	2.0	67.7	.91	71.0	74.6	„	0.0		+	14		0.10
2 „	.948	.291	69.6	67.8	1.8	66.9	.92	70.0	74.3	„	0.0		+	10		0.10
3 „	.933	.290	69.0	67.2	1.8	66.2	.92	69.4	74.3	„	0.0		+	2		Above 10m.
4 „	.929	.259	69.0	68.0	1.0	67.5	.95	69.6	74.2	„	0.0		+	20	15	0.12
5 „	.944	.274	69.0	68.0	1.0	67.5	.95	69.5	74.2	„	0.1		−	Out of Sc.	30	0.05
6 „	.956	.317	68.8	67.0	1.8	66.0	.92	69.2	74.1	„	0.1					
7 „	.978	.306	68.8	68.0	0.8	67.6	.96	69.4	74.0	„	0.0					
8 „	30.006	.361	71.8	68.2	3.6	66.3	.84	72.0	74.2	„	0.1					
9 „	.017	.369	74.0	69.0	5.0	66.5	.78	73.5	74.5	„	0.0		+	2		0.04
10 „	.020	.412	75.2	68.2	7.0	64.5	.71	74.0	74.7	„	0.0					
11 „	.009	.389	77.4	69.3	8.1	65.1	.67	76.0	75.0	„	0.0	None.	+	6		0.51
Noon.	29.976	.339	79.4	70.4	9.0	65.9	.65	78.1	75.3	„	0.0		+	1		5.43
1 p. m.	.943	.246	80.4	72.4	8.0	68.7	.69	79.0	75.5	NNW	0.1		+	12		0.08
2 „	.923	.245	80.8	72.0	8.8	67.8	.66	79.8	75.7	NW b N	0.0		+	2		Above 10m.
3 „	.911	.182	81.6	73.6	8.0	70.1	.67	80.2	76.0	NW	0.2		+	2		0.18
4 „	.913	.193	80.4	73.0	7.4	69.7	.71	79.8	76.2	NW b W	0.2		+	8		0.12
5 „	.921	.215	78.3	72.0	6.3	69.1	.75	77.5	76.2	NW	0.1		+	3		0.15
6 „	.929	.227	76.0	71.2	4.8	68.9	.80	75.4	76.0	„	0.1		+	10		0.12
7 „	.953	.250	75.3	71.0	4.3	69.0	.82	75.2	76.0	NW b N	0.3		+	12	8	0.08
8 „	.980	.302	74.4	70.0	4.4	67.8	.81	74.2	75.9	„	0.1		+	22	20	0.05
9 „	.996	.344	73.0	68.6	4.4	66.4	.81	73.0	75.8	„	0.0		+	20	15	0.36
10 „	.985	.348	72.0	68.0	4.0	65.9	.82	72.5	75.5	„	0.0		+	11	10	0.33
11 „	.974	.295	73.3	69.7	3.6	67.9	.84	73.4	75.6	„	0.0		+	5		0.08
Jan. 9th—Midnight	.958	.295	73.2	69.1	4.1	67.2	.82	73.4	75.5	NW b N	0.0		+	16	20	0.14
1 a. m.	.948	.258	72.6	69.8	2.8	68.4	.88	72.6	75.4	„	0.0		+	10		0.06
2 „	.942	.298	71.4	68.0	3.4	66.3	.85	72.0	75.2	„	0.0		+	2		0.04
3 „	.940	.288	70.6	68.0	2.6	66.6	.88	71.2	75.0	„	0.0		+	2		0.06
4 „	.943	.275	70.4	68.4	2.0	67.4	.91	70.6	74.8	„	0.0		+	4		0.07
5 „	.942	.342	70.0	66.2	3.8	64.1	.83	70.4	74.7	„	0.0	None.	+	2		0.12
6 „	.958	.321	70.8	67.6	3.2	65.9	.86	71.0	74.7	„	0.0					
7 „	.986	.302	71.4	69.2	2.2	68.1	.90	71.7	74.6	NNW	0.1		+	2		0.08
8 „	30.022	.313	72.2	70.2	2.0	69.2	.91	72.4	74.7	NE b E	0.0		+	6		0.10
9 „	.050	.342	74.8	71.0	3.8	69.2	.84	74.4	75.0	„	0.0		+	3		0.12
10 „	.048	.343	76.8	71.5	5.3	69.0	.78	76.0	75.3	„	0.0		+	4		0.06
11 „	.030	.321	78.0	72.0	6.0	69.2	.76	76.9	75.5	S	0.0					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to depote the clouds are: ≀ cirri; ≀ cirro-cumuli; ≀ cumuli; ≀ cirro-strati; ≀ cumulo-strati; and ≀ nimbi.	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°8. Temperature of Dew-Point at 6 A.M. was 51°9, the lowest during the month.
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	L	"	
0	L	A few pieces of fleecy clouds in E above hor.	
0	L	A few pieces of clouds along E hor., otherwise clear.	
0	L	Fog along E hor.; mist in remainder of hor.	
0	C	Fragments of fleecy clouds along E hor.; mist and fog in hor. as before.	
1	C	" " " " " " " "	
1	C	Fleecy clouds scattered about hor. from E to S.	
1	C	" " " " " "	
1	N	Fleecy ≀ and dense ≀ scattered about hor. from NNE to SSE.	
1	N	" " " " " " "	
1	N	" " " " " " "	
1	N	" " " " " " "	
1	L	Fleecy ≀ scattered along E hor.	
0	L	" " " "	
0	L	Clear.	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°6.
0	N	Clear, with dew falling.	
0	N	" " "	
0	N	" " "	
0	N	" " "	
0	L	" " "	
0	L	Fleecy ≀ scattered along E hor.	
1	L	Pieces of fleecy clouds above hor. from NE to SE; mist and fog in hor.	
0	L	A few pieces of clouds in NE, E, and SE above hor.; mist and fog in hor.	
0	C	Mist and fog in hor., otherwise clear.	
1	C	A few clouds along E hor.; mist and fog in hor.	
1	C	" " " " "	
1	C	≀ and fleecy ≀ about E hor.; mist along hor.	
1	N	Fleecy ≀ along E hor.	
1	N	" " "	
1	N	" " "	
1	N	" " "	
1	L	" " "	
0	L	Clear.	
0	L	"	
0	L	"	
0	C	"	
0	C	"	
0	C	A few clouds in E above hor.	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°6. Wind blew abnormally on this day.
7	N	Densely clouded with fleecy clouds, moving NW; dew falling.	
5	N	Fleecy clouds scattered about, moving NW; dew falling.	
4	N	" " " " "	
3	N	Fleecy clouds scattered about, moving NW; dew falling.	
3	L	Fleecy clouds scattered about, moving N; dew falling.	
3	L	Fleecy clouds and ≀ scattered about, moving N.	
2	L	Fleecy clouds scattered about hor.; mist in hor. [in hor.	
4	L	≀ and fleecy clouds scattered about, the latter chiefly about hor.; mist and fog	
4	C	Dense fleecy clouds in W; ≀ scattered about; fog in hor. from NW to SE.	
1	C	Dense fleecy clouds about hor. from NW to SW; fog in hor. from NW to SE.	
0	C	A few pieces of clouds in W; fog along E hor.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Jan. 9th–Noon.	29.991	29.286	79°0	71°8	7°2	69°0	0.71	77°7	75°8	NW b W	0.1					
1 p. m.	.964	.280	80.0	71.9	8.1	68.1	.68	78.8	75.9	WNW	0.2					
2 „	.936	.253	80.4	72.0	8.4	68.1	.67	79.6	76.1	NW	0.2					
3 „	.919	.203	80.7	73.0	7.7	69.5	.70	79.6	76.4	„	0.4					
4 „	.916	.171	80.8	73.8	7.0	70.7	.73	80.0	76.5	„	0.3					
5 „	.920	.186	78.4	72.8	5.6	70.3	.77	77.4	76.6	„	0.2					
6 „	.934	.195	76.3	72.3	4.0	70.5	.82	76.0	76.4	NW b N	0.2					
7 „	.950	.221	75.2	71.7	3.5	70.1	.85	75.0	76.3	„	0.1					
8 „	.965	.273	74.4	70.4	4.0	68.5	.83	74.4	76.2	„	0.1					
9 „	.980	.304	73.6	69.7	3.9	67.8	.83	73.9	76.1	„	0.1		+	4		0.16
10 „	.977	.313	72.4	68.9	3.6	67.2	.84	72.9	75.9	„	0.0					
11 „	.971	.267	73.5	70.4	3.1	68.9	.86	73.8	75.8	„	0.0					
Jan. 10th–Midnight	.957	.268	73.4	70.0	3.4	68.3	.85	73.2	75.8	NW b N	0.0		+	3		0.07
1 a. m.	.940	.272	71.6	68.8	2.8	67.4	.88	72.0	75.5	„	0.0		+	2		0.10
2 „	.927	.241	71.0	69.2	1.8	68.3	.92	71.6	75.4	„	0.0					
3 „	.920	.266	71.0	68.2	2.8	66.7	.88	71.6	75.3	„	0.0					
4 „	.927	.284	70.5	67.7	2.8	66.2	.88	71.1	75.1	„	0.0					
5 „	.940	.310	69.6	67.0	2.6	65.6	.88	70.2	74.9	„	0.0					
6 „	.959	.306	70.8	68.1	2.7	66.7	.88	71.0	74.9	„	0.0					
7 „	.984	.322	71.2	68.5	2.7	67.1	.88	71.5	74.8	„	0.2					
8 „	30.012	.326	73.0	69.8	3.2	68.2	.86	73.2	75.0	NE	0.2					
9 „	.030	.336	75.8	70.9	4.9	68.6	.79	75.4	75.2	E b S	0.2					
10 „	.033	.328	78.7	72.1	6.6	69.0	.74	78.2	75.7	„	0.1					
11 „	.014	.301	79.3	72.5	6.8	69.4	.73	78.4	76.0	„	0.1					
Noon.	29.976	.271	80.4	72.6	7.8	69.0	.69	79.2	76.1	WNW	0.1					
1 p. m.	.944	.235	81.4	73.0	8.4	69.2	.68	80.2	76.0	WSW	0.0					
2 „	.925	.180	82.7	74.3	8.4	70.7	.68	81.6	76.0	„	0.1					
3 „	.901	.175	83.2	74.0	9.2	69.9	.65	82.0	76.8	„	0.1					
4 „	.897	.173	83.4	74.0	9.4	69.9	.65	82.0	77.1	W	0.1					
5 „	.912	.178	80.8	73.5	7.3	70.3	.71	79.4	77.1	W b N	0.1					
6 „	.921	.187	78.0	72.7	5.3	70.3	.78	77.4	76.9	NW b W	0.1					
7 „	.948	.191	77.0	73.0	4.0	71.2	.83	76.8	76.8	NW	0.1					
8 „	.962	.229	75.8	72.0	3.8	70.2	.84	76.0	76.7	„	0.0					
9 „	.975	.233	75.0	72.0	3.0	70.6	.87	75.0	76.6	„	0.0		+	8		0.15
10 „	.983	.317	73.4	69.4	4.0	67.3	.83	73.9	76.4	„	0.0					
11 „	.976	.308	72.2	69.0	3.2	67.4	.86	73.0	76.2	„	0.0					
Jan. 12th–Midnight	.966	.201	74.2	72.4	1.8	71.6	.92	75.0	76.7	N b W	0.0					
1 a. m.	.956	.185	74.0	72.5	1.5	71.8	.93	74.6	76.5	N	0.0		+	4	4	0.06
2 „	.949	.228	73.6	71.0	2.6	69.7	.89	74.2	76.5	„	0.0		+	2		0.08
3 „	.942	.231	73.2	70.6	2.6	69.3	.89	74.0	76.4	„	0.0		+	2		0.08
4 „	.946	.234	72.6	70.4	2.2	69.3	.90	73.4	76.3	„	0.0		+	2		0.05
5 „	.968	.289	72.4	69.4	3.0	67.9	.87	72.7	76.1	„	0.1					
6 „	.984	.306	71.8	69.2	2.6	67.9	.88	72.5	76.0	ENE	0.1					
7 „	30.015	.360	71.6	68.4	3.2	66.8	.86	72.2	75.8	E b N	0.2					
8 „	.046	.389	73.2	69.0	4.2	66.9	.82	73.8	75.8	E	0.1					
9 „	.069	.395	75.7	70.3	5.4	67.7	.77	75.6	76.1	„	0.2					
10 „	.058	.402	76.4	70.0	6.4	66.8	.73	76.1	76.2	„	0.1					
11 „	.038	.382	78.2	70.6	7.6	66.8	.70	77.9	76.5	„	0.1					
Noon.	.003	.352	80.0	71.0	9.0	66.6	.65	79.3	76.7	„	0.1					
1 p. m.	29.973	.364	81.5	70.3	11.2	64.6	.58	80.3	76.8	NW b W	0.1					
2 „	.947	.289	82.0	71.8	10.2	66.9	.62	80.6	77.0	W	0.1					
3 „	.941	.261	82.6	72.6	10.0	67.9	.63	82.2	77.3	WSW	0.1					
4 „	.938	.246	81.9	72.7	9.2	68.5	.65	81.4	77.5	SW	0.1					
5 „	.943	.252	79.6	72.0	7.6	68.4	.70	79.2	77.5	SW b W	0.0					
6 „	.943	.225	77.2	72.0	5.2	69.6	.78	77.2	77.2	W b S	0.0					
7 „	.957	.219	76.4	72.3	4.1	70.5	.83	76.6	77.1	W	0.0					
8 „	.979	.244	74.7	71.7	3.0	70.3	.87	75.0	76.9	„	0.0					
9 „	.987	.252	74.0	71.5	2.5	70.3	.89	74.2	76.8	„	0.0		+	13	10	0.08
10 „	.992	.244	74.3	72.1	2.7	70.9	.88	74.9	76.7	N b W	0.0		+	12	10	0.12
11 „	.988	.202	73.2	71.0	2.2	69.9	.90	73.9	76.6	NW	0.0		+	4		0.07

None. None. None. None.

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩∪ cumulo-strati; and ∪∩ nimbi.	
1	C	Patches of clouds in NE and E, NW, and W; fog in E hor.	
1	N	Fleecy clouds scattered about E hor.	
1	N	" " "	
1	N	" " "	
1	N	" " "	
1	L	Fleecy clouds scattered about E hor.; mist in hor.	
0	L	" " " " "	
0	L	Clear.	
0	L	"	
0	C	"	
0	C	"	
1	C	≀≀ scattered about NW, NE, E, and SE hor.	
0	C	A few pieces of clouds in NW and zth., moving in W.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°6. Direction of Wind was abnormal this day.
1	N	Fleecy clouds scattered about hor. from NE to SSE.	
0	N	A few clouds in E hor.; dew falling.	
1	N	Fleecy clouds from N to NW; dew falling.	
1	N	" " " "	
0	L	Clear.	
0	L	"	
0	L	Mist and fog in hor.	
0	L	" "	
0	C	A few pieces of clouds in NW and W hor.; mist and fog in hor.	
0	C	Mist and fog in hor.	
0	C	" "	
0	C	Clear.	
0	N	"	
0	N	Pieces of fleecy clouds scattered about hor. from E to S.	
0	N	" " " " "	
0	N	" " " " "	
0	L	Clear.	
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	L	"	
5	C	Light fleecy clouds scattered about, moving W; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°5. Direction of Wind was abnormal on this and the preceding day.
3	N	Light fleecy clouds scattered about, moving NW; dew falling.	
4	N	" " " " " "	
4	N	" " " " " " [falling.	
8	N	≀ and fleecy clouds scattered throughout, both moving NW; a lunar-halo; dew	
8	L	" " " " " " "	
8	L	≀ scattered throughout.	
8	L	≀ scattered throughout; mist in hor.	
8	L	Densely clouded with ≀; fog in hor.	
8	C	" " " "	
8	C	" " " "	
8	C	" " " "	
8	C	Overcast with ≀; a few patches of ≀≀ along E hor.; mist along W hor.	
8	N	Overcast with ≀; a solar-halo.	
8	N	" " "	
8	N	" " "	
8	N	Overcast with dense ≀.	
8	L	" "	
8	L	" "	
8	L	≀ scattered about.	
4	L	Densely clouded with ≀.	
7	C	" "	
6	C	≀ scattered about; dew falling.	
2	C	" " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Jan. 13th-Midnight	29.981	29.249	72°6	71°0	1°6	70°2	0.93	72°7	76°4	N b W	0.0		+	4		2.03
1 a. m.	.977	.245	72.6	71.0	1.6	70.2	.93	73.0	76.2	„	0.0		+	8		0.08
2 „	.966	.264	72.8	70.2	2.6	68.9	.89	73.2	76.2	„	0.1					
3 „	.958	.256	72.8	70.2	2.6	68.9	.89	73.2	76.0	NE	0.1					
4 „	.960	.260	72.4	70.0	2.4	68.8	.89	72.8	76.0	„	0.1					
5 „	.960	.303	71.7	68.5	3.2	66.9	.86	72.0	75.9	„	0.2					
6 „	.980	.330	70.8	68.0	2.8	66.6	.87	71.2	75.7	„	0.0					
7 „	30.003	.326	70.5	68.8	1.7	67.8	.92	71.2	75.6	NE b E	0.0					
8 „	.040	.345	73.6	70.2	3.4	68.6	.85	74.0	75.7	„	0.1					
9 „	.054	.381	74.8	70.0	4.8	67.6	.79	74.8	76.0	ENE	0.1					
10 „	.054	.370	77.0	71.0	6.0	68.1	.75	76.8	76.1	„	0.1					
11 „	.046	.380	78.6	71.0	7.6	67.3	.70	78.6	76.4	NW b W	0.1					
Noon.	.018	.331	80.0	72.0	8.0	68.2	.69	79.5	76.7	NW	0.1					
1 p. m.	29.986	.276	79.2	72.4	6.8	69.3	.73	79.0	76.7	„	0.1	None.				
2 „	.965	.245	80.4	73.0	7.4	69.7	.70	79.8	76.8	„	0.3					
3 „	.945	.212	81.2	73.6	7.6	70.2	.70	80.4	77.0	„	0.2					
4 „	.963	.206	80.4	74.0	6.4	71.2	.75	79.6	77.3	„	0.5					
5 „	.966	.255	77.2	71.8	5.4	69.3	.78	76.7	77.0	NW b N	0.3					
6 „	.977	.280	75.8	71.0	4.8	68.9	.80	75.8	76.9	„	0.3					
7 „	.995	.302	75.2	70.7	4.5	68.5	.81	75.4	76.8	„	0.2					
8 „	30.009	.334	74.6	70.0	4.6	67.7	.80	75.0	76.7	„	0.2					
9 „	.021	.342	74.3	70.0	4.3	67.9	.81	74.5	76.6	„	0.1		+ + +	13	10	0.08
10 „	.019	.360	73.0	69.2	3.8	67.0	.82	73.1	76.4	„	0.0		+ + +	12	10	0.12
11 „	.006	.398	72.2	67.2	5.0	64.5	.78	72.7	76.2	„	0.0		+ + +	4		0.07
Jan. 14th-Midnight	29.988	.342	71.2	68.0	3.2	66.4	.86	71.8	76.0	NW b N	0.0					
1 a. m.	.973	.336	70.8	67.6	3.2	65.9	.86	71.6	75.7	„	0.0					
2 „	.964	.334	71.4	67.6	3.8	65.6	.83	72.0	75.6	„	0.0					
3 „	.975	.358	70.8	67.0	3.8	65.0	.83	71.2	75.5	NNW	0.1					
4 „	.982	.394	69.4	65.6	3.8	63.5	.83	70.1	75.2	„	0.0					
5 „	.983	.400	69.2	65.4	3.8	63.2	.83	70.2	75.1	„	0.0					
6 „	30.006	.403	69.2	66.0	3.2	64.3	.85	79.8	74.9	„	0.0					
7 „	.033	.406	69.9	67.0	2.9	65.4	.87	70.2	74.8	„	0.1					
8 „	.048	.460	69.7	65.7	4.0	63.5	.82	70.0	74.7	„	0.2					
9 „	.060	.447	73.0	67.6	5.4	64.8	.77	73.2	75.0	N b W	0.0					
10 „	.051	.435	75.4	68.5	6.9	64.9	.71	75.7	75.3	„	0.0					
11 „	.031	.408	77.8	69.5	8.3	65.3	.67	77.7	75.7	„	0.1	None.	None.	None.	None.	None.
Noon.	.002	.368	79.3	70.3	9.0	65.8	.65	78.9	76.0	NW b W	0.3					
1 p. m.	29.970	.317	79.8	71.0	8.8	66.7	.66	79.2	76.0	N b E	0.8					
2 „	.953	.295	80.0	71.2	8.8	66.9	.66	79.6	76.3	NNW	1.5					
3 „	.949	.327	78.8	69.8	9.0	65.2	.65	78.2	76.5	NW b W	1.0					
4 „	.952	.310	77.6	70.0	7.6	66.2	.70	77.4	76.3	NW	1.0					
5 „	.955	.327	75.8	69.0	6.8	65.5	.72	75.6	76.3	„	0.7					
6 „	.966	.322	74.4	69.0	5.4	66.3	.76	74.5	76.0	„	0.5					
7 „	.990	.364	74.2	68.4	5.8	65.4	.75	74.4	76.0	„	0.7					
8 „	30.009	.407	73.8	67.8	6.0	64.2	.74	74.0	75.9	„	0.4					
9 „	.022	.469	72.3	65.5	6.8	61.6	.71	72.2	75.7	„	0.1					
10 „	.008	.462	71.0	64.9	6.1	61.3	.73	71.7	75.4	„	0.0					
11 „	29.981	.443	70.4	65.0	5.4	60.8	.73	71.0	75.2	„	0.0					
Jan. 15th-Midnight	.962	.437	69.2	63.5	5.7	60.1	.74	70.2	75.0	NW	0.0					
1 a. m.	.953	.426	69.0	63.5	5.5	60.2	.75	70.0	74.6	„	0.0					
2 „	.937	.410	67.6	63.0	4.6	60.2	.79	68.4	74.3	„	0.0					
3 „	.926	.379	68.0	63.8	4.2	61.3	.81	68.2	74.3	„	0.0					
4 „	.934	.400	67.6	63.2	4.4	60.6	.80	68.2	74.0	NE b N	0.0					
5 „	.934	.460	67.6	61.2	6.4	57.0	.70	67.8	73.9	„	0.0					
6 „	.941	.397	67.4	63.4	4.0	61.2	.81	67.8	73.8	„	0.0	None.	+	1	None.	0.12
7 „	.965	.431	67.0	63.0	4.0	60.6	.81	67.5	73.5	NE	0.0					
8 „	.981	.381	70.6	66.4	4.2	64.1	.81	70.8	73.7	„	0.1					
9 „	30.003	.410	73.0	67.0	6.0	63.8	.74	73.1	74.0	E b N	0.1					
10 „	.002	.416	74.6	67.0	7.6	63.4	.76	74.7	74.4	E	0.1					
11 „	29.982	.371	77.4	69.0	8.4	64.7	.66	77.2	74.8	„	0.0					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: cirri; cirro-cumuli; cumuli; cirro-strati; cumulo-strati; and nimbi.	
3	C	scattered about; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°5.
4	N	" " "	
4	N	" " "	
4	N	" " "	
2	N	scattered around hor.; dew falling.	
1	L	scattered around hor.	
1	L	scattered about hor. from E to W. [along E hor.	
3	L	scattered around hor.; a few patches of fleecy in SW and W; *light fog*	
3	L	in E, SE, and SSE above hor.; fleecy from SW to N hor.; fog along E hor.	
3	C	above E hor.; fleecy from S to NW hor.; fog in hor. as before.	
3	C	above E hor.; fleecy about hor. from W to NE; fog in hor. as before.	
7	C	& fleecy scatd. along E hor., otherwise clouded with ; fog along E hor.	
5	C	and fleecy along E hor.; scattered about; fog along E hor.	
6	N	Fleecy scattered about, moving NE.	
2	N	Fleecy around hor. from NNE to SSE; in the remainder of hor.	
2	N	Fleecy from NE to S hor.; scattered about remainder of hor.	
8	N	Fleecy in NE and E; otherwise clouded with dense , moving NE.	
8	L	" " " " " "	
8	L	Densely clouded with ; a few patches of fleecy in W.	
4	L	scattered about.	
7	L		
6	C	" "	
2	C	" " [visible about zth.	
8	C	A few patches of fleecy in E, otherwise clouded with ; a few stars dimly	
		Overcast with .	
8	C	Overcast with ; a few stars dimly visible.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°5. Fresh breezes of Wind blew in the evening.
8	N	Overcast with , moving NE.	
8	N	" " "	
8	N	" " "	
8	N	" " "	
8	L	Overcast; a lunar-halo.	
8	L	Overcast with .	
7	L	Fleecy clouds around NE, E, and SE hor.; scattered about; mist in hor.	
6	L	A few patches of fleecy clouds in E and N; scattered about; mist in hor.	
2	C	and fleecy scattered about hor. from NNE to S; mist in hor.	
2	C	and fleecy scattered around hor.; a few patches of about zth.	
3	C	Small masses of fleecy clouds and scattered about.	
3	C	Fleecy clouds around hor. from SW to N; in remainder of hor.	
2	N	Dense scattered around hor.	
2	N	" " "	
7	N	Fleecy clouds around hor.; scattered throughout, moving N.	
8	N	Fleecy clouds around hor., otherwise clouded with .	
8	L	Densely clouded with .	
8	L	" "	
7	L	" "	
7	L	" "	
7	C	" "	
4	C	scattered about.	
4	C	" "	
4	C	scattered about hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°2.
6	N	scattered throughout.	
6	N	scattered throughout; a lunar-halo.	
6	N	" " "	
4	N	scattered about, a partial lunar-halo.	
8	L	scattered throughout; a lunar-halo; a few stars visible in NE and E of zth.	
8	L	scattered throughout; a lunar-halo; a few stars dimly visible to W of zth.	
8	L	Densely clouded with .	
7	L	scattered throughout, except W of zth.; mist in hor.	
6	C	scattered throughout; mist in hor.	
6	C	" " "	
6	C	scattered throughout; fog along E hor.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Jan. 15th-Noon.	29.950	29.312	79°6	70°5	9°1	66°0	0.65	79°0	75°2	E	0.0					
1 p. m.	.915	.268	80.4	71.0	9.4	66.4	.64	79.4	75.4	NW b N	0.0					
2 „	.892	.220	81.4	72.0	9.4	67.6	.64	80.2	75.7	„	0.1					
3 „	.883	.195	81.2	72.4	8.8	68.3	.66	80.4	76.0	„	0.1					
4 „	.880	.173	80.2	72.6	7.6	69.1	.70	79.4	76.1	„	0.1					
5 „	.885	.170	78.5	72.3	6.2	69.5	.75	78.2	76.2	„	0.1					
6 „	.905	.175	77.4	72.4	5.0	70.1	.79	77.2	76.2	„	0.1	None.				
7 „	.924	.188	76.2	72.2	4.0	70.4	.83	76.3	76.0	NNW	0.1					
8 „	.947	.241	75.0	71.0	4.0	69.1	.83	75.0	76.0	„	0.1		+	8		4.00
9 „	.963	.309	73.7	69.1	4.6	66.7	.80	74.2	75.9	N b W	0.0		+	10	5	2.40
10 „	.960	.334	73.0	68.0	5.0	65.4	.78	73.3	75.7	„	0.0		+	38	20	2.06
11 „	.952	.344	71.6	67.0	4.6	64.5	.80	72.2	75.5	„	0.0		+	6		7.08
Jan. 16th-Midnight	.932	.324	71.6	67.0	4.6	64.5	.80	72.0	75.4	N b W	0.0		+	22	15	3.24
1 a. m.	.919	.299	70.1	66.8	3.3	65.1	.85	71.0	75.1	„	0.0		+	12		0.12
2 „	.906	.258	71.0	68.0	3.0	66.5	.86	71.2	75.0	„	0.0		+	2		1.04
3 „	.895	.218	70.8	68.3	2.0	67.8	.91	71.4	75.0	„	0.0		+	2		1.30
4 „	.898	.230	72.2	69.0	3.2	67.4	.86	72.2	75.0	„	0.0		+	4		1.45
5 „	.911	.270	71.6	68.0	3.6	66.1	.84	71.8	74.9	„	0.1					
6 „	.929	.266	71.4	68.6	2.8	67.2	.87	71.7	74.8	„	0.1					
7 „	.953	.327	71.2	67.4	3.8	65.4	.83	71.6	74.7	„	0.1					
8 „	.972	.320	73.1	68.8	4.3	66.6	.81	73.3	74.8	N	0.1					
9 „	.999	.330	75.2	70.0	5.2	67.4	.78	75.3	75.2	N b E	0.1					
10 „	30.013	.364	77.0	70.0	7.0	66.5	.71	76.8	75.4	„	0.1		+	1		0.12
11 „	.002	.345	78.8	70.8	8.0	66.9	.68	78.2	75.8	„	0.1	None.				
Noon.	29.960	.351	80.6	70.0	10.6	64.6	.60	80.2	76.1	„	0.1					
1 p. m.	.928	.339	83.0	70.2	12.8	63.5	.54	82.1	76.4	N	0.0					
2 „	.899	.215	84.2	73.2	11.0	68.1	.60	83.0	76.7	NW	0.2					
3 „	.887	.193	84.0	73.4	10.6	68.6	.61	82.8	77.0	WNW	0.1					
4 „	.890	.192	83.0	73.2	9.8	68.7	.64	82.0	77.1	NW b W	0.2					
5 „	.897	.157	80.6	73.0	7.6	70.5	.70	79.9	77.2	„	0.3					
6 „	.914	.180	78.4	72.8	5.6	70.3	.77	78.2	77.1	NW	0.3					
7 „	.937	.205	76.6	72.2	4.4	70.2	.81	76.6	76.9	NW b N	0.2					
8 „	.955	.241	75.6	71.4	4.2	69.4	.82	75.8	76.8	NNW	0.2					
9 „	.980	.358	73.1	67.9	5.2	65.2	.78	73.4	76.5	„	0.0		+	3		0.18
10 „	.977	.348	72.4	67.9	4.5	65.5	.80	73.0	76.3	„	0.0					
11 „	.960	.334	72.4	67.8	4.6	65.4	.80	73.0	76.1	„	0.0					
Jan. 17th-Midnight	.941	.343	71.7	66.7	5.0	64.0	.78	72.1	76.0	N b W	0.0					
1 a. m.	.921	.331	70.4	66.0	4.4	63.6	.80	71.2	75.6	„	0.0					
2 „	.902	.316	71.3	66.2	5.1	63.4	.77	71.8	75.5	„	0.0					
3 „	.901	.303	70.8	66.4	4.4	64.0	.80	71.4	75.3	„	0.0					
4 „	.903	.330	69.6	65.2	4.4	62.7	.80	70.4	75.1	„	0.0					
5 „	.906	.301	69.0	66.0	3.0	64.4	.86	70.0	74.8	„	0.0					
6 „	.925	.314	69.6	66.4	3.2	64.7	.85	70.2	74.7	„	0.0		+	1		0.40
7 „	.955	.322	70.6	67.4	3.2	65.7	.85	71.0	74.7	„	0.1					
8 „	.975	.316	73.0	69.0	4.0	67.0	.82	73.2	74.8	N	0.1		+	1		0.08
9 „	.993	.362	75.5	69.0	6.5	65.6	.73	75.0	75.2	„	0.1		+	6		0.12
10 „	30.002	.345	76.3	70.0	6.3	66.9	.74	76.0	75.5	„	0.1					
11 „	29.986	.426	76.8	67.3	9.5	62.0	.62	76.4	75.6	„	0.0					
Noon.	.953	.433	78.5	66.6	11.9	59.8	.55	78.1	75.8	„	0.0	None.				
1 p. m.	.923	.387	81.4	68.0	13.4	60.6	.51	80.2	76.0	„	0.0					
2 „	.895	.338	82.8	69.2	13.6	61.9	.51	81.6	76.4	WSW	0.1					
3 „	.882	.259	83.8	71.4	12.4	65.3	.55	82.3	76.7	W b N	0.1					
4 „	.878	.234	83.9	72.0	11.9	66.3	.57	82.2	77.0	W	0.1					
5 „	.877	.205	81.4	72.0	9.4	67.6	.64	80.2	77.0	„	0.1					
6 „	.886	.181	79.0	72.2	6.8	69.0	.73	78.4	76.8	W b N	0.2		+	4		0.12
7 „	.905	.189	78.0	72.2	5.8	69.5	.76	77.8	76.8	WNW	0.1		+	1		Above 10m.
8 „	.933	.231	76.7	71.4	5.3	68.9	.78	76.2	76.7	NW	0.1					
9 „	.948	.240	74.8	71.0	3.8	69.2	.84	74.8	76.5	„	0.0		+	Out of Sc.	40	0.04
10 „	.950	.317	73.6	68.4	5.2	65.7	.78	73.8	76.3	„	0.1		+	16		0.07
11 „	.949	.358	72.6	66.8	5.8	63.7	.75	72.8	76.0	NW b N	0.0					

Amount of Clouds 0—8.	Observers.	State of the Weather. Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀ cirro-cumuli; ≀ cumuli; ≀ cirro-strati; ≀ cumulo-strati; and ≀ nimbi.	Remarks.
4	C	≀ scattered throughout; fog along E hor.	
3	N	≀ scattered about hor., otherwise clear.	
6	N	" " " "	
7	N	Densely clouded with ≀, moving NE.	
7	N	" " " "	
8	L	Densely clouded with ≀, moving N.	
8	L	" " " "	
5	L	Dense ≀ scattered about hor.	
3	L	" " "	
3	C	" " "	
2	C	" " "	
4	C	≀ around hor.; patches of fleecy clouds scattered about, moving W.	
2	C	≀ scattered about hor.; a few patches of ≀ in zth.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°2.
2	N	≀ scattered about, moving NW.	
4	N	≀ and ≀ scattered about, both moving NW.	
2	N	≀ scattered around hor.; dew falling.	
1	N	Light ≀ scattered about; dew falling.	
0	L	Clear, except in hor.	
0	L	Light ≀ scattered along E hor.	
0	L	A few streaks of ≀ above N and NW hor.; mist in hor.	
0	L	Light mist from NW to S hor.	
0	C	A few ≀ in NE above hor.; light mist along E hor.	
0	C	Mist in hor. from NE to SE.	
0	C	" " "	
0	C	A few pieces of clouds about E hor.	
0	N	A few pieces of clouds along W hor.	
0	N	" " "	
3	N	Dense ≀ scattered in N hem.	
2	N	" " "	
2	L	Dense ≀ scattered about hor. from SW to NE.	
1	L	Dense ≀ scattered in NW, N, and W hor.	
0	L	Clear.	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°2.
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	A few ≀ scattered about NW and N hor.; mist and fog in hor.	
0	L	" " " " " " "	
1	C	Dense ≀ scattered about hor. from W to NE; mist and fog in hor.	
1	C	Dense ≀ scattered about hor. from SW to N; mist and fog in hor.	
1	C	" " " " " " "	
1	C	A few pieces of fleecy clouds in NE; ≀ scattered from SW to N.	
0	N	Haze along E hor.	
0	N	" " "	
0	N	A few ≀ scattered about.	
0	N	" " "	
0	N	Clear.	
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	N	"	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Jan. 19th-Midnight	29.927	29.286	72°2	68°2	4°0	66°1	0.82	72°5	76°0	NNW	0.0		+	20	10	0.12
1 a. m.	.913	.268	71.4	68.0	3.4	66.3	.85	72.1	75.6	„	0.0		+	6		0.10
2 „	.893	.282	70.2	66.6	3.6	64.7	.84	70.6	75.5	„	0.0		+	6		0.07
3 „	.882	.268	70.0	66.6	3.4	64.8	.85	70.4	75.4	„	0.0		+	10		0.08
4 „	.881	.291	69.8	65.8	4.0	63.6	.82	70.2	75.1	„	0.0		+	2		0.22
5 „	.887	.309	70.0	65.5	4.5	63.0	.80	70.5	75.0	„	0.1					
6 „	.903	.244	71.2	68.4	2.8	67.0	.87	71.6	74.9	„	0.2		+	8		0.08
7 „	.926	.327	71.3	66.6	4.7	64.1	.79	71.5	74.9	N	0.1		+	6		0.15
8 „	.947	.314	73.4	68.4	5.0	65.8	.78	73.4	75.0	NNE	0.1					
9 „	.961	.322	76.0	69.4	6.6	66.0	.72	75.6	75.4	NE b N	0.1					
10 „	.960	.303	77.6	70.4	7.2	66.9	.70	77.1	75.7	„	0.1		+	9		0.17
11 „	.945	.322	80.7	70.4	10.3	65.3	.61	80.2	76.2	„	0.0					
Noon.	.914	.242	83.0	72.5	10.5	67.6	.61	81.2	76.6	„	0.2		+	17	10	0.13
1 p. m.	.887	.176	81.8	73.2	8.6	69.3	.67	80.6	76.6	WNW	0.2	None.	+	4		0.12
2 „	.859	.183	82.0	72.6	9.4	67.8	.65	81.0	76.7	„	0.5					
3 „	.846	.138	82.8	73.4	9.4	69.2	.65	82.0	77.0	NW	0.7		+	10		0.08
4 „	.835	.080	82.6	74.6	8.0	71.2	.70	81.8	77.4	„	0.5		+	10		0.07
5 „	.841	.083	80.3	74.0	6.3	71.3	.75	79.5	77.5	NW b N	0.2		+	11	7	0.05
6 „	.862	.109	77.4	73.0	4.4	71.1	.82	77.4	77.2	„	0.2		+	4		0.30
7 „	.892	.163	76.2	72.0	4.2	70.1	.82	76.2	77.1	„	0.3		+	4		0.15
8 „	.923	.253	75.4	70.1	5.3	67.5	.78	75.6	77.0	„	0.1		+	1		0.20
9 „	.928	.302	74.2	68.4	5.8	65.4	.75	74.4	76.8	„	0.0		+	11		1.03
10 „	.926	.311	74.0	68.0	6.0	64.9	.74	74.4	76.7	„	0.0					
11 „	.911	.271	73.2	68.4	4.8	65.9	.79	73.6	76.4	„	0.0					
Jan. 20th-Midnight	.900	.277	72.7	67.8	4.9	65.3	.79	73.0	76.3	NW b N	0.0		+	13		0.42
1 a. m.	.890	.200	71.4	67.6	3.8	65.6	.83	72.2	76.0	„	0.1					
2 „	.868	.200	72.2	69.0	3.2	67.4	.86	72.8	75.8	„	0.0					
3 „	.861	.224	72.0	68.0	4.0	65.9	.82	72.4	75.7	„	0.0		+	20		0.06
4 „	.861	.192	71.5	68.8	2.7	67.4	.89	72.0	75.6	„	0.0		+	4		0.10
5 „	.874	.202	72.1	69.1	3.0	67.6	.86	72.4	75.6	„	0.0					
6 „	.888	.222	72.4	69.0	3.4	67.3	.85	72.7	75.6	NE b N	0.1					
7 „	.913	.257	72.3	68.7	3.6	66.8	.84	72.7	75.5	„	0.1					
8 „	.937	.280	73.2	69.0	4.2	66.9	.82	73.5	75.5	NE	0.1					
9 „	.954	.262	74.7	70.5	4.2	68.5	.82	74.9	75.7	„	0.1		+	1		0.07
10 „	.956	.312	78.1	70.2	7.9	66.3	.68	78.0	76.0	„	0.1					
11 „	.936	.387	80.6	68.2	12.4	61.4	.54	80.0	76.5	„	0.0					
Noon.	.903	.343	83.2	69.4	13.8	62.0	.50	82.2	77.0	„	0.0	None.			None.	
1 p. m.	.872	.231	84.8	72.2	12.6	66.1	.55	83.4	77.2	NNW	0.0					
2 „	.843	.177	85.8	73.2	12.6	67.3	.56	84.8	77.5	W	0.1					
3 „	.824	.129	86.0	74.0	12.0	68.6	.57	84.8	77.8	„	0.1					
4 „	.821	.157	85.4	73.0	12.4	67.2	.56	84.1	78.0	W b N	0.1		+	1		Above 10m.
5 „	.819	.130	83.1	73.0	10.1	68.3	.63	82.2	78.1	WNW	0.1					
6 „	.841	.087	80.6	74.0	6.6	71.1	.74	80.4	78.0	„	0.2					
7 „	.866	.117	79.0	73.4	5.6	70.9	.77	79.0	77.9	NW	0.2					
8 „	.885	.176	78.0	72.0	6.0	69.2	.76	77.8	77.8	NW b N	0.1					
9 „	.911	.276	76.4	69.4	7.0	65.8	.71	76.7	77.6	NNW	0.0		+	1		Above 10m.
10 „	.918	.196	76.8	72.0	4.8	69.8	.80	76.9	77.5	„	0.0					
11 „	.911	.249	75.8	70.0	5.8	67.1	.76	76.1	77.5	„	0.0					
Jan. 21st-Midnight	.896	.292	75.6	68.2	7.4	64.3	.70	76.0	77.3	NNW	0.1					
1 a. m.	.885	.222	76.4	70.2	6.2	67.2	.74	76.6	77.2	„	0.0					
2 „	.860	.230	75.6	69.0	6.6	65.6	.73	76.0	77.0	„	0.0					
3 „	.866	.229	75.0	69.0	6.0	65.9	.75	75.2	77.0	„	0.0					
4 „	.867	.294	74.8	67.0	7.8	62.7	.67	75.0	76.8	„	0.1					
5 „	.884	.276	74.6	68.0	6.6	64.5	.72	75.0	76.6	N b E	0.1					
6 „	.895	.287	75.2	68.2	7.0	64.5	.71	75.0	76.6	NE b N	0.4	None.	None.	None.	None.	None.
7 „	.911	.296	75.5	68.5	7.0	64.9	.71	75.5	76.5	„	0.7					
8 „	.941	.301	76.6	69.6	7.0	66.1	.71	76.1	76.8	„	0.3					
9 „	.955	.328	78.2	69.6	8.6	65.4	.66	78.5	77.0	„	0.2					
10 „	.959	.330	80.8	70.6	10.2	65.5	.61	80.7	77.4	„	0.3					
11 „	.940	.326	83.3	71.0	12.3	64.8	.56	82.9	77.8	„	0.2					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩ cumulo-strati; and ≀∩ nimbi.	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°2. Fresh breezes of Wind in the evening.
0	N	"	
0	N	"	
0	N	"	
0	N	"	
1	L	≀ scattered in SW and W about hor., and a few pieces in zth., moving NW.	
2	L	Light fleecy clouds scattered about hor. and in E hem., moving NW.	
2	L	Fleecy clouds scattered about, moving N; mist and fog in hor.	
1	L	Fleecy clouds scattered about hor., moving N; mist and fog in hor.	
1	C	" " " " " " "	
0	C	Patches of fleecy clouds in SE; mist and fog in hor.	
0	C	Mist and fog in hor.	
0	C	A few patches of clouds along E hor.	
1	N	Fleecy clouds scattered about hor. from NNE to S.	
1	N	" " " " "	
1	N	Fleecy ∩ around hor.	
1	N	" "	
1	L	" "	
0	L	" "	
0	L	Clear.	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°2. Range of Barometer was 0.137, the highest during the month.
1	N	A few clouds along E hor.	
1	N	Fleecy clouds scattered along E hor.	
1	N	Fleecy clouds along E hor., moving N.	
1	N	" " " "	
1	L	Fragments of fleecy clouds scattered about hor.	
1	L	" " " "	
2	L	Fleecy clouds around hor.; ≀≀ about zth.; mist in hor.	
2	L	Fleecy clouds around hor., in E, and SE; ≀≀ W of zth.; mist in hor.	
3	C	" " " " " " "	
3	C	≀≀ above W hor.; patches of fleecy clouds scattered about.	
2	C	Fleecy clouds scattered in E, SE, and about zth.	
3	C	" " " "	
5	N	Fleecy clouds scattered about.	
5	N	" " "	
3	N	Fleecy clouds scattered about hor.	
2	N	" " "	
2	L	Fleecy clouds scattered here and there.	
3	L	Fleecy clouds scattered about, moving W.	
2	L	" " " "	
3	L	" " " "	
3	C	Fleecy clouds scattered around hor. and about zth.	
6	C	Fleecy clouds scattered about, moving NW.	
5	C	" " " " "	
6	C	Fleecy clouds scattered about.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°2. Temperature of Free Air was 88°3 at 2 P. M., which was the highest during the month.
8	N	Overcast with fleecy clouds.	
8	N	Overcast; a few stars dimly visible here and there.	
8	N	Overcast with dense fleecy clouds.	
7	N	≀ and fleecy clouds scattered throughout, the latter moving N.	
7	L	" " " " " " "	
5	L	≀ about zth.; fleecy clouds scattered about hor.	
5	L	Fleecy clouds scattered about; mist in hor.	
2	L	Fleecy clouds around hor.; mist along W hor.	
3	C	Fleecy clouds scattered along E hor. and in zth.	
1	C	Fleecy clouds scattered along E hor.	
1	C	" " " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Jan. 21st-Noon.	29.904	29.364	85°6	69°6	16°0	60°9	0.46	85°2	78°2	NNE	0.1					
1 p. m.	.872	.331	87.4	70.2	17.2	61.0	.43	86.2	78.5	„	0.0					
2 „	.857	.099	88.3	76.3	12.0	71.3	.58	86.4	78.9	W	0.1					
3 „	.844	.079	87.4	76.2	11.2	71.6	.61	86.3	79.1	„	0.1					
4 „	.840	.087	87.0	75.8	11.2	71.1	.61	86.0	79.3	„	0.1					
5 „	.853	.092	84.2	75.2	9.0	71.4	.67	83.0	79.3	„	0.1					
6 „	.864	.101	81.6	74.5	7.1	71.5	.72	81.4	79.1	WNW	0.1	None.			None.	
7 „	.895	.097	80.8	75.2	5.6	72.9	.78	80.7	79.0	„	0.0					
8 „	.920	.183	78.8	73.0	5.8	70.4	.77	79.0	78.9	„	0.0		+	9		0.20
9 „	.929	.148	78.2	74.0	4.2	72.2	.83	78.2	78.8	„	0.0		+	3		0.35
10 „	.931	.202	76.2	72.0	4.2	70.4	.82	76.8	78.6	„	0.0					
11 „	.928	.189	75.6	72.1	3.5	70.5	.85	75.8	78.3	„	0.0					
Jan. 22nd-Midnight	.913	.174	75.6	72.1	3.5	70.5	.85	75.8	78.2	WNW	0.1					
1 a. m.	.887	.160	74.4	71.4	3.0	70.0	.87	74.8	77.8	„	0.0					
2 „	.865	.190	73.7	69.7	4.0	67.7	.83	74.2	77.6	„	0.0					
3 „	.855	.142	74.4	71.0	3.4	69.4	.85	74.8	77.5	N b E	0.0					
4 „	.855	.222	73.6	68.4	5.2	65.7	.78	74.0	77.4	NNE	0.1					
5 „	.867	.226	72.2	68.2	4.0	66.1	.82	72.8	77.2	„	0.0					
6 „	.887	.294	71.2	66.4	4.8	63.8	.79	72.2	76.9	„	0.1					
7 „	.908	.271	72.0	68.0	4.0	65.9	.82	72.9	76.7	„	0.1					
8 „	.929	.244	75.6	70.6	5.0	68.1	.79	75.7	76.9	„	0.1					
9 „	.941	.325	76.0	68.7	7.3	64.9	.70	75.8	77.1	NE b E	0.1					
10 „	.945	.238	78.2	72.0	6.2	69.1	.75	78.2	77.3	„	0.1					
11 „	.931	.236	80.3	72.3	8.0	68.6	.69	80.0	77.6	„	0.1					
Noon.	.893	.262	83.4	71.5	11.9	65.6	.56	83.4	78.0	„	0.1	None.				
1 p. m.	.872	.270	85.0	71.2	13.8	64.2	.51	84.0	78.2	W b N	0.1					
2 „	.839	.193	85.0	72.4	12.6	66.3	.55	83.8	78.4	„	0.2			4		
3 „	.829	.229	85.2	71.2	14.0	64.0	.51	84.1	78.6	„	0.2			4		
4 „	.834	.227	84.6	71.2	13.4	64.5	.53	83.8	78.8	„	0.2			4		
5 „	.844	.227	83.0	71.0	12.0	65.0	.56	82.0	78.8	„	0.2			2		
6 „	.854	.169	80.2	72.0	8.2	68.1	.68	80.0	78.5	„	0.2			2		
7 „	.871	.155	79.4	72.6	6.8	69.5	.73	79.2	78.5	NW b N	0.1			3		
8 „	.888	.156	78.6	72.8	5.8	70.2	.76	78.6	78.5	„	0.1			3		
9 „	.901	.160	76.4	72.4	4.0	70.6	.83	76.2	78.3	„	0.0		Not Observed	36	25	Not Observed.
10 „	.908	.156	75.8	72.5	3.3	71.0	.86	76.0	78·1	„	0.0			Out of Sc.	60	
11 „	.900	.151	75.4	72.0	3.4	70.9	.85	75.5	78.0	NW	0.0			4		
Jan. 23rd-Midnight	.895	.178	74.0	71.0	3.0	69.6	.87	74.2	77.8	NW	0.0			6		
1 a. m.	.885	.159	73.2	71.0	2.2	69.9	.90	73.6	77.5	„	0.0			6		
2 „	.877	.188	73.4	70.0	3.4	68.3	.85	73.6	77.3	„	0.0					
3 „	.865	.217	71.6	68.2	3.4	66.5	.85	72.4	77.0	„	0.0					
4 „	.858	.236	71.6	67.4	4.2	65.2	.82	72.2	76.8	„	0.0					
5 „	.872	.257	71.0	67.0	4.0	64.9	.82	71.4	76.6	„	0.0					
6 „	.883	.325	69.8	64.8	5.0	61.9	.77	70.4	76.3	NW b N	0.1					
7 „	.905	.326	70.2	65.6	4.6	63.0	.79	71.0	76.2	„	0.0					
8 „	.925	.294	73.8	68.4	5.4	65.6	.77	74.0	76.3	NNW	0.1					
9 „	.944	.332	75.8	68.5	7.3	64.7	.70	75.7	76.5	N b E	0.1					
10 „	.945	.332	77.2	69.0	8.2	64.8	.71	77.0	76.8	NE b N	0.1					
11 „	.930	.300	78.7	70.0	8.7	65.6	.66	78.3	77.0	„	0.0					
Noon.	.891	.245	80.8	71.1	9.7	66.4	.63	80.2	77.3	N b E	0.1	None.	Not Observed.		None.	Not Observed.
1 p. m.	.868	.227	82.2	71.4	10.8	66.1	.60	81.8	77.5	NW b W	0.3					
2 „	.839	.213	82.8	71.2	11.6	65.4	.57	82.1	77.7	„	0.5					
3 „	.833	.207	82.8	71.2	11.6	65.4	.57	82.4	78.0	NW	1.2					
4 „	.830	.244	82.6	70.0	12.6	63.4	.54	82.2	78.0	„	0.7					
5 „	.837	.230	80.8	70.0	10.8	64.5	.59	80.0	78.2	„	0.3					
6 „	.843	.235	77.6	69.0	8.6	64.5	.66	77.4	77.8	„	0.4		+	1		Above 10m.
7 „	.865	.276	76.4	68.0	8.4	63.5	.66	76.6	77.6	„	0.5					
8 „	.890	.299	76.2	68.0	8.2	63.7	.67	76.2	77.6	NW b W	0.3					
9 „	.898	.303	75.8	68.0	7.8	63.9	.68	76.0	77.5	„	0.2		+ +	1		Above 10m.
10 „	.903	.295	74.6	68.0	6.6	64.5	.72	74.6	77.3	„	0.0		+ +	3		5.30
11 „	.897	.382	72.3	64.3	8.0	59.5	.66	73.0	77.0	„	0.0		+	2		9.43

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩⌣ cumulo-strati; and ≀∩ nimbi.	
1	C	Fleecy clouds scattered along E hor.	
1	N	" " " "	
1	N	" " " "	
1	N	Patches of fleecy clouds about NW, NE, and SE hor.	
1	N	" " " " " "	
2	L	Fleecy clouds around hor.; ≀≀ scattered about zth.	
3	L	Fleecy clouds scattered about, moving NW.	
2	L	Fleecy clouds scattered here and there.	
1	L	" " " "	
1	C		
0	C	" " " "	
0	C	Clear.	
0	C	"	
0	C	A few patches of ≀≀ in W.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°2.
2	N	Patches of ≀≀ scattered about.	
2	N	" " "	
2	N	" " "	
3	N	Patches of ≀≀ scattered about, moving NW.	
5	L	Patches of ≀≀ scattered about, moving N.	
3	L	Patches of ≀≀ scattered about, moving E.	
3	L	Patches of ≀≀ scattered about, moving ENE; mist and fog in hor.	
2	L	" " " " " "	
4	C	" " " " " "	
3	C	" " " " " "	
1	C	" " " " " "	
0	C	A few patches of clouds around hor.; mist in hor.	
3	N	A few patches of clouds along E hor.	
3	N	≀≀ scattered about.	
1	N	" "	
6	N	≀≀ scattered throughout, moving NE.	
2	L	" " " "	
0	L	A few patches of clouds along E hor.	
0	L	Clear.	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°2. Force of Wind at 3 P. M. was 1.2 lb. 23rd January was the first cloudless day from the beginning of this year.
0	N	Clear, with dew falling.	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	Clear.	
0	L	"	
0	L	Light mist in hor.	
0	L	" "	
0	C	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	N	A few patches of fleecy clouds in E.	
0	N	" " " "	
0	N	" " " "	
0	N	Clear.	
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	C	"	
0	C	"	
0	C	"	

Bomba Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Jan. 24th-Midnight	29.892	29.345	71°4	65°0	6°4	61°3	0.72	72°6	76°8	NW b N	0.0					
1 a. m.	.880	.315	70.3	65.2	5.1	62.3	.77	71.4	76.5	„	0.0		+	4		1.04
2 „	.871	.250	71.0	67.2	3.8	65.2	.83	72.0	76.1	„	0.0		+	12		0.40
3 „	.879	.286	71.2	66.4	4.8	63.8	.79	71.6	76.0	„	0.0					
4 „	.876	.358	69.0	63.2	5.8	59.7	.74	70.2	75.6	„	0.0					
5 „	.877	.290	70.6	66.0	4.6	63.4	.79	71.2	75.7	„	0.1					
6 „	.899	.416	67.8	61.6	6.2	57.6	.71	68.2	75.3	„	0.0					
7 „	.919	.376	67.8	63.6	4.2	61.1	.80	69.0	75.0	„	0.0					
8 „	.942	.362	72.4	66.4	6.0	63.1	.74	72.7	75.3	„	0.0					
9 „	.961	.366	74.6	67.6	7.0	63.9	.71	74.4	75.4	„	0.0					
10 „	.949	.395	76.0	66.8	9.2	61.7	.63	75.8	75.5	„	0.0					
11 „	.937	.409	77.8	66.6	11.2	60.3	.57	77.2	75.8	NNW	0.0					
Noon.	.899	.379	80.2	67.2	13.0	59.8	.51	79.6	76.3	„	0.1					
1 p. m.	.861	.327	81.4	68.0	13.4	60.6	.51	80.7	76.7	NW b N	0.1	None.	+	2		Above 10m.
2 „	.839	.253	82.9	70.1	12.8	63.4	.54	82.0	77.0	W	0.2		+	3		Above 10m.
3 „	.832	.223	83.4	70.9	12.5	64.6	.55	82.2	77.3	„	0.3		+	3		Above 10m.
4 „	.837	.214	82.8	71.1	11.7	65.3	.57	81.7	77.4	„	0.3		+	2		Above 10m.
5 „	.846	.230	80.0	70.0	10.0	64.9	.62	79.0	77.2	W b N	0.4		+	1		Above 10m.
6 „	.865	.265	77.6	69.1	8.5	64.1	.66	77.6	77.2	NW b W	0.1					
7 „	.881	.241	76.6	69.6	7.0	66.1	.71	76.7	77.1	„	0.2		+	2		0.17
8 „	.905	.258	76.3	70.3	6.0	66.4	.75	76.2	77.1	„	0.1					
9 „	.915	.223	74.4	70.4	4.0	68.5	.83	74.6	76.8	„	0.0		+	36	30	2.14
10 „	.908	.198	74.6	71.0	3.6	69.3	.84	74.4	76.7	„	0.0		+	30	25	1.25
11 „	.894	.257	72.0	68.0	4.0	65.9	.78	72.6	76.5	„	0.0		+	5		Above 10m.
Jan. 26th-Midnight	.900	.282	71.7	68.0	3.7	66.1	.84	72.3	75.8	NW	0.0					
1 a. m.	.889	.239	70.8	68.0	2.8	66.6	.87	71.4	75.5	„	0.0					
2 „	.862	.190	71.8	69.0	2.8	67.6	.88	72.2	75.5	„	0.0					
3 „	.858	.201	71.4	68.4	3.0	66.9	.86	72.0	75.4	„	0.0					
4 „	.860	.231	71.2	67.5	3.7	65.3	.83	71.6	75.4	N b E	0.1					
5 „	.860	.245	71.0	67.0	4.0	64.9	.82	71.4	75.3	NE b N	0.1					
6 „	.874	.243	70.8	67.4	3.4	65.6	.85	71.2	75.2	„	0.2					
7 „	.903	.301	70.8	66.5	4.3	64.2	.81	71.4	75.1	NE	0.2					
8 „	.937	.280	73.2	69.0	4.2	66.9	.82	73.2	75.2	NNE	0.2					
9 „	.941	.260	75.4	70.4	5.0	68.0	.79	75.6	75.5	„	0.2					
10 „	.929	.256	78.0	71.0	7.0	67.6	.72	77.8	75.9	E b N	0.2					
11 „	.915	.255	79.2	71.0	8.2	67.0	.68	79.2	76.2	„	0.1	None.	None.	None.	None.	None.
Noon.	.892	.241	80.0	71.0	9.0	66.6	.65	79.5	76.5	„	0.0					
1 p. m.	.865	.124	81.2	73.8	7.4	70.6	.71	80.6	76.6	W b N	0.6					
2 „	.851	.157	80.7	72.4	8.3	68.6	.68	80.2	76.7	NW b W	0.8					
3 „	.841	.168	79.0	71.3	7.7	67.6	.69	78.8	76.7	NW	1.5					
4 „	.838	.184	78.4	70.6	7.8	65.8	.69	78.2	76.6	NW b W	0.8					
5 „	.845	.214	76.8	69.4	7.4	65.6	.70	76.2	76.7	NW	0.4					
6 „	.854	.228	74.2	68.4	5.8	65.4	.75	74.2	76.4	NW b W	0.5					
7 „	.882	.271	73.4	67.7	5.7	64.7	.75	73.8	76.2	NW	0.5					
8 „	.905	.253	73.6	69.0	4.6	66.6	.80	74.0	76.1	„	0.4					
9 „	.919	.297	72.8	67.8	5.0	65.2	.78	73.0	76.1	„	0.2					
10 „	.920	.318	72.2	67.0	5.2	64.2	.77	72.3	75.9	„	0.2					
11 „	.909	.326	71.3	66.1	5.2	63.2	.77	72.0	75.7	„	0.6					
Jan. 27th-Midnight	.903	.317	71.6	66.3	5.3	63.4	.77	72.0	75.5	NW b N	0.1					
1 a. m.	.895	.337	70.4	65.0	5.4	61.9	.76	70.8	75.3	„	0.1					
2 „	.887	.327	69.6	64.8	4.8	62.0	.78	70.0	75.0	„	0.1					
3 „	.884	.317	69.0	64.8	4.2	62.4	.81	69.2	74.7	„	0.1					
4 „	.883	.334	68.4	64.0	4.4	61.4	.80	68.4	74.5	NNW	0.3					
5 „	.894	.349	68.2	63.8	4.4	61.2	.80	68.4	74.3	„	0.3					
6 „	.921	.374	68.0	63.8	4.2	61.3	.81	68.0	74.1	„	0.2					
7 „	.937	.384	68.0	64.0	4.0	61.6	.81	68.7	74.0	„	0.1	None.	+	4	None.	0.08
8 „	.956	.403	70.8	65.0	5.8	61.6	.74	71.2	74.1	„	0.1		+	6		0.25
9 „	.964	.439	73.4	65.0	8.4	60.1	.65	73.6	74.5	N b W	0.1					
10 „	.963	.487	75.3	64.1	11.2	57.2	.55	75.1	74.7	N b E	0.1					
11 „	.943	.401	77.1	66.8	10.3	61.0	.59	76.7	75.0	„	0.1		+	1		Above 10m.

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∿ cirri; ∿∿ cirro-cumuli; ⌒ cumuli; ⌣ cirro-strati; ⌒∿ cumulo-strati; and ∿∿ nimbi.	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°2.
0	N	,,	
0	N	,,	
0	N	,,	
0	N	,,	
0	L	,,	
0	L	,,	
0	L	Mist from SW to N hor.; fog along E hor.	
0	L	,, ,, ,, ,, ,,	
0	N	,, ,, ,, ,, ,,	
0	N	,, ,, ,, ,, ,,	
0	N	Mist around hor.	
0	N	,, ,,	
0	C	,, ,,	
0	C	Dense ∿ in NW and W above hor.; light mist along E hor.	
0	C	Mist along E hor.	
0	C	,, ,,	
0	C	,, ,,	
0	C	Clear.	
0	C	,,	
0	C	,,	
0	C	,,	
0	C	,,	
0	C	,,	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°2. Light breezes of Wind blew in the evening. On the 25th January at about 11 P. M. continuous lightning was observed in NW hor.
0	N	,,	
0	N	,,	
0	N	,,	
0	N	,,	
0	L	,,	
0	L	,,	
1	L	Patches of fleecy clouds along W hor.; mist in hor.	
1	L	,, ,, ,, ,, ,,	
1	C	,, ,, ,, ,, ,,	
1	C	Patches of fleecy clouds from SE to N hor.; mist along E hor.	
2	C	Patches of fleecy clouds around hor.; mist along E hor.	
2	C	,, ,, ,, ,, ,, ,,	
2	N	Patches of fleecy clouds scattered about, moving E.	
2	N	Patches of fleecy clouds around hor.	
1	N	,, ,, ,, ,,	
1	N	,, ,, ,, ,,	
0	L	A few patches of clouds in E hor.	
0	L	Clear.	
0	L	,,	
0	L	,,	
0	C	,,	
0	C	,,	
0	C	,,	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below it surface 78°0 and 81°1.
0	N	,,	
0	N	,,	
0	N	,,	
0	N	,,	
0	L	,,	
0	L	,,	
0	L	Patches of clouds along hor. from S to W; haze along E hor.	
0	L	,, ,, ,, ,, ,,	
0	C	Haze along E hor.	
0	C	Clear.	
0	C	Fleecy clouds scattered in NE about hor.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the original degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Jan. 27th–Noon.	29.909	29.399	77°6	66°0	11°6	59°2	0.55	77°0	75°2	N b W	0.1					
1 p. m.	.876	.336	77.8	67.0	10.8	60.9	.58	77.2	75.3	WNW	0.4		+	1		Above 10m.
2 „	.846	.306	78.4	67.2	11.2	60.9	.57	77.8	75.3	„	0.8		+	1		Above 10m.
3 „	.837	.355	78.4	65.4	13.0	57.5	.50	78.2	75.5	NW b W	0.6		+	2		Above 10m.
4 „	.842	.325	77.0	66.0	11.0	59.6	.57	76.6	75.5	„	0.4		+	2		Above 10m.
5 „	.848	.352	74.9	64.6	10.3	58.4	.58	74.6	75.5	„	0.8		+	1		Above 10m.
6 „	.857	.368	71.4	63.1	8.3	58.0	.64	71.6	75.1	„	0.8	None.	+	2		Above 10m.
7 „	.871	.366	70.2	63.2	7.0	58.9	.69	70.5	74.8	„	0.6		+	2		Above 10m.
8 „	.894	.393	69.4	62.8	6.6	58.7	.70	70.0	74.6	„	0.5		+	1		Above 10m.
9 „	.905	.408	69.0	62.5	6.5	58.4	.71	69.6	74.4	NW	0.3		+	2		Above 10m.
10 „	.900	.391	68.4	62.7	5.7	59.2	.73	68.5	74.2	„	0.1		+	26	15	4.36
11 „	.887	.385	67.2	62.0	5.2	58.7	.71	67.6	73.9	„	0.0		+	4		0.57
Jan. 28th–Midnight	.876	.394	66.4	61.0	5.4	57.5	.74	66.8	73.6	NW	0.1		+	1		Above 10m.
1 a. m.	.859	.377	66.4	61.0	5.4	57.5	.74	66.8	73.5	„	0.1					
2 „	.847	.379	65.6	60.2	5.4	56.6	.74	66.2	73.0	„	0.1					
3 „	.841	.342	66.4	61.6	4.8	58.6	.78	67.2	73.0	„	0.0		+	2		Above 10m.
4 „	.839	.377	65.0	59.8	5.2	56.3	.75	65.4	72.7	„	0.0					
5 „	.853	.401	64.4	59.2	5.2	55.6	.75	65.2	72.6	„	0.0					
6 „	.864	.364	64.2	60.8	3.4	58.6	.83	64.8	72.5	„	0.1					
7 „	.892	.459	63.0	58.0	5.0	54.3	.75	65.0	72.5	„	0.0					
8 „	.917	.360	68.2	64.2	4.0	61.9	.81	68.6	72.3	NW b N	0.0					
9 „	.933	.514	70.4	60.4	10.0	53.4	.57	70.6	72.6	„	0.0					
10 „	.932	.498	72.8	61.8	11.0	54.4	.54	72.2	73.0	„	0.0					
11 „	.912	.472	74.2	62.5	11.7	54.8	.53	73.5	73.2	„	0.1					
Noon.	.888	.432	75.5	63.5	12.0	55.9	.53	74.9	73.5	NNW	0.1	None.	+	2		Above 10m.
1 p. m.	.852	.372	77.2	64.9	12.3	57.4	.52	76.2	73.6	„	0.1		+	2		Above 10m.
2 „	.835	.355	78.0	65.2	12.8	57.4	.51	76.8	73.9	NW b W	0.2		+	2		Above 10m.
3 „	.826	.331	79.0	66.0	13.0	58.3	.51	78.2	74.2	„	0.2		+	4		Above 10m.
4 „	.812	.292	79.6	67.0	12.6	59.8	.53	78.4	74.5	NW	0.1		+	2		Above 10m.
5 „	.816	.295	77.2	66.2	11.0	59.8	.57	76.2	74.6	„	0.2		+	2		Above 10m.
6 „	.831	.277	73.6	66.0	7.6	61.7	.68	73.6	74.4	„	0.2		+	1		Above 10m.
7 „	.856	.284	72.6	66.2	6.4	62.7	.72	72.8	74.2	„	0.3		+	3		Above 10m.
8 „	.879	.307	72.0	66.0	6.0	62.7	.74	72.2	74.1	„	0.4		+	1		Above 10m.
9 „	.894	.339	71.2	65.2	6.0	61.8	.73	71.3	74.0	NW b N	0.2		+	2		Above 10m.
10 „	.891	.325	69.6	65.0	4.6	62.3	.79	70.2	73.8	„	0.0		+	Out of Sc.	20	0.05
11 „	.887	.320	69.5	65.0	4.5	62.4	.80	70.2	73.7	„	0.2		+	22	10	0.14
Jan. 29th–Midnight	.872	.346	71.0	64.2	6.8	60.1	.70	71.1	73.8	NW b N	0.8		+	3		1.4
1 a. m.	.869	.402	67.6	61.0	6.6	56.6	.70	68.0	73.2	„	0.1		+	1		Above 10m.
2 „	.860	.362	67.8	62.1	5.7	58.5	.74	68.2	73.2	N b W	0.0		+	1		Above 10m.
3 „	.845	.346	68.0	62.2	5.8	58.6	.74	68.2	73.0	„	0.0		+	2		Above 10m.
4 „	.840	.332	67.2	62.2	5.0	59.1	.76	67.4	72.8	„	0.0		+	7	7	0.18
5 „	.852	.341	66.4	62.0	4.4	59.3	.79	67.0	72.6	„	0.1		+	1		1.00
6 „	.868	.378	66.2	61.2	5.0	58.0	.76	66.5	72.5	N	0.1		+	3		0.40
7 „	.892	.406	66.0	61.0	5.0	57.8	.76	67.0	72.3	„	0.0		+	6		1.00
8 „	.917	.403	69.1	63.1	6.0	59.4	.73	69.4	72.4	„	0.1		+	4		5.00
9 „	.943	.452	71.8	63.0	8.8	58.1	.63	71.5	72.9	„	0.0		+	2		7.00
10 „	.945	.404	74.8	66.0	8.8	61.0	.64	74.2	73.2	NNW	0.2		+	1		Above 10m.
11 „	.921	.394	76.8	66.1	10.7	60.2	.59	75.6	73.7	NW b N	0.2		+	1		Above 10m.
Noon.	.898	.353	77.4	67.0	10.4	61.2	.58	76.9	73.9	NW	0.1	None.				
1 p. m.	.872	.362	73.2	66.2	12.0	59.2	.54	78.0	74.0	NW b N	0.3		+	1		Above 10m.
2 „	.847	.315	79.8	67.4	12.4	60.5	.53	79.2	74.4	„	1.2		+	9		Above 10m.
3 „	.838	.289	80.0	68.0	12.0	61.4	.55	79.8	74.5	NW	0.2		+	2		Above 10m.
4 „	.840	.278	80.6	68.6	12.0	62.1	.55	80.0	75.0	„	0.3		+	2		Above 10m.
5 „	.841	.313	76.6	66.2	10.4	60.3	.59	76.2	74.8	NW b N	0.3		+	3		Above 10m.
6 „	.846	.307	74.4	65.8	8.6	60.9	.64	74.2	74.6	„	0.2		+	3		Above 10m.
7 „	.857	.336	73.2	64.8	8.4	59.9	.65	73.4	74.5	NNW	0.1		+	3		Above 10m.
8 „	.877	.353	72.0	64.5	7.5	60.0	.68	72.0	74.4	„	0.1		+	2		Above 10 m.
9 „	.890	.428	70.8	62.0	8.8	56.3	.62	71.0	74.1	„	0.0		+	2		Above 10m.
10 „	.891	.400	70.6	62.9	7.7	58.1	.64	70.9	74.0	„	0.0		+	5		6.35
11 „	.867	.451	69.6	60.0	9.6	53.2	.58	70.0	73.8	„	0.0		+	10		5.40

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ⌒i cirri; ∿i cirro-cumuli; ∩i cumuli; ⌣i cirro-strati; ∩⌣i cumulo-strati; and ∿⌣i nimbi.	
0	C	Fleecy clouds scattered in NE about hor.	
0	N	A few patches of clouds in NE and E hor.	
0	N	" " " "	
0	N	" " " "	
0	N	" " " "	
0	L	Clear.	
0	L	"	
0	L	"	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°0. Height of Standard Barometer at 4 P. M. was 29.812, the lowest during the month; Temperature of Free Air at 7 A. M. was 63°0, the lowest during the month. 28th January was the second cloudless day from the beginning of this year.
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	Mist from NW to N hor.; fog in the remainder of hor.	
0	L	" " " "	
0	C	Haze along E hor.	
0	C	" "	
0	C	Clear.	
0	C	"	
0	N	Mist around hor.	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	Clear.	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°0. Force of Wind at 2 P. M. was 1.2 lb.
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	L	"	
0	L	A few patches of clouds along E hor.; haze in hor.	
0	L	" " " " " "	
0	L	Patches of fleecy clouds in ESE above hor.; haze in hor.	
0	C	" " " " " "	
0	C	Patches of fleecy clouds in S and SW, and about zth.	
0	C	Patches of clouds scattered here and there.	
0	C	" " " "	
1	N	Fleecy clouds scattered about hor.	
6	N	Fleecy clouds and ∿i scattered about, both moving N.	
6	N	" " " " " "	
4	N	" " " " " "	
4	L	Fleecy ∩i scattered about; ∿i in NW above hor.	
4	L	Fleecy clouds scattered about moving NE; a few patches ∿i about zth.	
2	L	Fleecy clouds and ∿i scattered about, both moving NE.	
2	L	Fleecy clouds in W and NW, around hor.; ∿i scattered about zth.	
2	C	Fleecy clouds around hor. and about zth.	
3	C	Fleecy clouds scattered about, except in zth.	
1	C	Fleecy clouds scattered in E and W around hor.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Jan. 30th-Midnight	29.853	29.354	68°6	62°4	6°2	58°6	0.72	68°9	73°5	NNW	0.0		+	1		Above 10m.
1 a. m.	.847	.294	70.8	65.0	5.8	61.6	.74	71.2	73.5	NE b N	0.0		+	2		Above 10m.
2 „	.831	.312	67.8	62.8	5.0	59.7	.77	68.2	73.3	„	0.0		+	2		Above 10m.
3 „	.818	.306	67.4	62.4	5.0	59.3	.77	67.8	73.0	„	0.0		+	1		Above 10m.
4 „	.825	.373	66.4	60.0	6.4	55.6	.70	66.8	72.7	„	0.0		+	1		Above 10m.
5 „	.833	.365	66.0	60.4	5.6	56.6	.73	66.8	72.6	„	0.0					
6 „	.855	.327	66.2	62.5	3.7	60.3	.82	66.7	72.5	„	0.0		+	8		Above 10m.
7 „	.874	.408	65.2	60.0	5.2	56.5	.75	66.6	72.3	„	0.0		+	3		Above 10m.
8 „	.909	.496	68.9	59.6	9.3	52.9	.59	69.2	72.4	„	0.1					
9 „	.919	.421	73.0	64.0	9.0	58.5	.62	72.4	73.0	„	0.1		+	4		Above 10m.
10 „	.903	.386	74.6	65.0	9.6	59.6	.57	74.2	73.2	„	0.1		+	2		Above 10.n.
11 „	.895	.416	76.2	64.5	11.7	57.3	.54	75.5	73.5	„	0.1		+	3		Above 10m.
Noon.	.872	.334	78.0	67.0	11.0	60.8	.57	77.2	73.9	N b W	0.2					
1 p. m.	.846	.260	79.6	69.0	10.6	63.4	.60	78.2	74.0	W b N	0.2	None.	+	2		Above 10m.
2 „	.828	.248	80.2	69.0	11.2	63.1	.58	79.2	74.5	WNW	0.4		+	2		Above 10m.
3 „	.817	.213	80.4	69.8	10.6	64.3	.60	79.4	74.8	NW b N	0.3		+	2		Above 10m.
4 „	.818	.249	80.6	68.8	11.8	62.5	.56	79.8	75.0	„	0.2		+	2		Above 10m.
5 „	.819	.246	79.6	68.6	11.0	62.7	.58	78.2	75.2	„	0.2		+	1		Above 10m.
6 „	.829	.256	75.4	67.2	8.2	62.7	.66	75.0	75.0	„	0.1		+	2		Above 10m.
7 „	.851	.279	73.8	66.6	7.2	62.7	.70	73.8	74.7	„	0.2		+	3		Above 10m.
8 „	.869	.335	72.8	65.1	7.7	60.6	.67	73.0	74.6	„	0.2					
9 „	.880	.320	72.0	65.6	6.4	62.0	.72	72.2	74.5	„	0.1		+	2		7.00
10 „	.884	.264	70.0	66.8	3.2	65.1	.85	70.1	74.2	„	0.1		+	Out of Sc.	80	0.12
11 „	.880	.275	69.0	66.0	3.0	64.4	.86	69.2	74.0	„	0.1		+	2		1.07
Jan. 31st-Midnight	.869	.303	69.1	64.8	4.3	62.3	.80	69.2	73.8	WNW	0.0					
1 a. m.	.851	.292	68.3	64.3	4.0	62.0	.81	68.6	73.5	„	0.0					
2 „	.834	.297	66.2	62.8	3.4	60.8	.84	66.4	73.3	„	0.0		+	1		Above 10m.
3 „	.826	.283	66.7	63.2	3.5	61.1	.84	67.0	73.0	„	0.0					
4 „	.827	.316	66.4	62.0	4.4	59.3	.79	66.6	72.8	„	0.1					
5 „	.836	.324	66.8	62.2	4.6	59.3	.78	66.8	72.7	NW b W	0.2					
6 „	.856	.283	68.1	64.8	3.3	62.7	.85	68.0	72.7	NW b N	0.2					
7 „	.891	.331	67.4	64.0	3.4	62.0	.84	67.8	72.7	NNE	0.3					
8 „	.919	.371	69.3	64.3	5.0	61.4	.77	69.2	72.7	NE	0.3					
9 „	.949	.401	71.3	65.0	6.3	61.4	.72	71.1	73.0	„	0.2					
10 „	.957	.402	73.3	65.9	7.4	61.8	.69	73.0	73.2	NNE	0.2					
11 „	.945	.398	75.8	66.5	9.3	61.3	.62	75.2	73.6	„	0.3					
Noon.	.912	.428	78.2	65.4	12.8	57.6	.51	77.7	74.0	„	0.1	None.			None.	
1 p. m.	.871	.271	80.8	69.8	11.0	64.1	.59	79.8	74.4	N	0.1		+	2		Above 10m.
2 „	.847	.214	82.0	71.2	10.8	65.7	.59	80.6	74.8	NNW	0.1		+	1		Above 10m.
3 „	.834	.252	83.0	70.0	13.0	63.2	.53	82.0	75.2	„	0.1		+	2		Above 10m.
4 „	.831	.248	83.6	70.2	13.4	63.2	.52	82.2	75.4	„	0.1		+	2		Above 10m.
5 „	.824	.229	81.8	70.0	11.8	63.9	.56	80.0	75.7	„	0.2		+	2		Above 10m.
6 „	.839	.259	77.2	68.0	9.2	63.1	.63	77.6	75.5	„	0.3		+	1		Above 10m.
7 „	.866	.255	75.6	68.4	7.2	64.7	.70	75.4	75.3	„	0.2		+	1		Above 10m.
8 „	.893	.332	73.0	66.0	7.0	62.2	.70	72.7	75.1	„	0.0		+	4		Above 10m.
9 „	.908	.344	71.6	65.6	6.0	62.2	.74	72.2	74.8	„	0.0					
10 „	.918	.354	71.3	65.5	5.8	62.2	.74	71.8	74.6	„	0.0					
11 „	.914	.321	73.0	67.0	6.0	63.8	.74	73.2	74.6	„	0.1					
Feb. 2nd-Midnight	.908	.254	71.0	68.2	2.8	66.7	.88	71.4	75.0	NW b W	0.0					
1 a. m.	.894	.308	70.2	65.8	4.4	63.4	.80	70.8	74.9	„	0.0					
2 „	.856	.405	70.2	61.4	8.8	55.5	.62	70.8	74.6	„	0.0		+	1		0.18
3 „	.851	.381	69.5	61.8	7.7	56.8	.66	69.9	74.4	„	0.0					
4 „	.856	.410	69.5	61.0	8.5	55.2	.63	69.7	74.2	„	0.0		+	1		0.14
5 „	.857	.269	70.2	65.8	4.2	63.5	.81	70.4	74.0	NNW	0.0					
6 „	.867	.404	68.6	61.2	7.4	56.3	.67	69.0	73.8	„	0.0	None.	+	4	None.	0.18
7 „	.898	.390	68.2	62.6	5.6	59.1	.74	68.6	73.5	„	0.0					
8 „	.923	.424	71.8	63.8	8.0	58.9	.66	72.2	73.6	„	0.0					
9 „	.960	.443	75.0	65.0	10.0	59.0	.59	74.8	74.2	„	0.1					
10 „	.953	.439	77.8	66.2	11.6	59.4	.55	77.2	74.7	„	0.2					
11 „	.925	.376	79.4	67.8	11.6	61.4	.56	79.0	75.0	„	0.2					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ⌇ cirrl; ⌇⌇ cirro-cumuli; ⌒ cumuli; ⌒⌇ cirro-strati; ⌒⌒ cumulo-strati; and ⌇⌇ nimbi.	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°0. Daily Range of Barometer was 0.102, the lowest during the month.
0	N	,,	
0	N	,,	
0	N	,,	
0	N	,,	
0	L	,,	
0	L	A few patches of fleecy clouds scattered in E above hor.	
0	L	Light mist around hor.	
0	L	Mist in hor. from NW to SE.	
0	C	,, ,, ,,	
0	C	A few patches of clouds in E hor.; mist along E hor.	
0	C	A few patches of fleecy clouds in E and SE; mist from W to SE hor.	
0	C	A few patches of clouds along E hor.; mist in hor. as before.	
0	N	Patches of clouds in hor.	
1	N	Fleecy clouds scattered about NE, E, and SE hor.	
1	N	,, ,, ,, ,,	
1	N	,, ,, ,, ,,	
0	L	A few clouds along E hor.	
0	L	,, ,, ,,	
0	L	,, ,, ,,	
0	L	Clear.	
0	C	,,	
0	C	,,	
0	C	,,	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°0. Daily Range of the Temperature of External and Free Air was 17°4, the highest during the month. There were five days during the month on which the Mean daily portion of cloudy sky was not more than one-eighteenth part of the whole sky; out of these five there were only two considered as entirely cloudless.
0	N	,,	
0	N	,,	
0	N	,,	
0	N	,,	
0	L	A few clouds along E hor	
0	L	,, ,, ,,	
1	L	Haze around hor.	
0	L	,, ,,	
0	C	,, ,,	
0	C	,, ,,	
0	C	,, ,,	
0	C	Haze along E hor.	
0	N	Haze around hor.	
0	N	,, ,,	
0	N	,, ,,	
0	N	,, ,,	
0	L	,, ,,	
0	L	Clear.	
0	L	,,	
0	L	,,	
0	L	,,	
0	L	,,	
0	L	,,	
3	N	Fleecy clouds scattered about, moving NW.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°8 and 81°0. Daily Range of Barometer was 0.165, the highest during the month.
2	C	,, ,, ,, ,,	
2	C	Fleecy clouds scattered in SE and NE, also around hor.	
0	C	Fleecy clouds scattered around hor.	
0	C	Clear.	
0	N	A few clouds along E hor.	
0	N	Clear.	
0	N	Mist along E hor.	
0	N	Mist around hor.	
0	L	A few patches of clouds in W hor.; mist in hor.	
0	L	,, ,, ,, ,,	
0	L	,, ,, ,, ,,	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet-Bulb Thermometer.	Depression of Wet-Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Feb. 2nd–Noon.	29.889	29.319	81°1	69°0	12°1	62°6	0.55	79°7	75°4	WNW	0.3					
1 p. m.	.842	.226	81.8	70.6	11.2	64.9	.58	80.4	75.7	NW b N	0.2					
2 „	.812	.153	82.5	72.0	10.5	67.0	.61	81.0	76.0	„	0.2					
3 „	.790	.132	82.6	72.0	10.6	67.0	.61	81.2	76.1	„	0.1					
4 „	.788	.125	82.2	72.0	10.2	67.2	.62	80.9	76.2	NW	0.2					
5 „	.799	.084	80.2	72.8	7.4	69.5	.71	79.2	76.4	NW b W	0.2					
6 „	.806	.145	77.2	70.4	6.8	67.2	.72	77.2	76.1	„	0·2	None.				
7 „	.848	.177	76.6	70.5	6.1	67.5	.75	76.8	76.0	NW	0.2					
8 „	.865	.182	75.8	70.6	5.2	68.1	.78	76.2	76.0	„	0.2					
9 „	.878	.197	75.4	70.4	5.0	68.0	.79	75.4	76.0	„	0.0					
10 „	.892	.206	73.6	70.0	3.6	68.2	.84	73.4	75.8	„	0.0					
11 „	.885	.190	73.1	70.1	3.0	68.6	.87	73.4	75.7	„	0.0		+	Out of Sc.	24	0.06″
Feb. 3rd–Midnight	.874	.169	73.5	70.5	3.0	69.0	.87	73.7	75.6	NW b N	0.0					
1 a. m.	.862	.144	73.6	70.9	2.7	69.6	.88	74.0	75.6	„	0.0					
2 „	.852	.143	73.1	70.5	2.6	69.2	.88	73.2	75.6	„	0.0					
3 „	.833	.123	73.0	70.5	2.5	69.3	.88	73.2	75.5	„	0.2					
4 „	.826	.131	72.2	69.8	2.4	68.6	.89	72.8	75.4	SE	0.2					
5 „	.831	.148	72.0	69.4	2.6	68.1	.88	72·6	75.3	SE b E	0.2					
6 „	.843	.162	72.2	69.4	2.8	68.0	.88	72·6	75.2	ESE	0.2					
7 „	.872	.215	73.2	69.0	4.2	66.9	.82	73.6	75.0	„	0.2					
8 „	.892	.224	74.6	69.8	4.8	67.4	.79	74.6	75·2	„	0.2					
9 „	.916	.274	77.0	69.8	7.2	66.2	.71	76.4	75.5	„	0.1					
10 „	.929	.266	77.6	70.6	7.0	67.2	.72	77.2	75.6	„	0.0					
11 „	.920	.259	79.1	71.0	8.1	67.1	.68	78.6	76.1	„	0.1		None.	None.	None.	None.
Noon.	.898	.196	82.0	73.0	9.0	68.9	.66	81.0	76.5	WSW	0.1					
1 p. m.	.875	.143	81.8	73.6	8.2	70.0	.68	82.0	76.8	S b E	0.1					
2 „	.854	.121	82.5	74.0	8.5	70.2	.68	82.2	77.1	„	0.1					
3 „	.844	.122	82.5	73.8	8.7	69.8	.67	82.2	77.3	„	0.0					
4 „	.847	.108	82.0	74.0	8.0	70.5	.73	82.2	77.3	„	0.0					
5 „	.855	.114	81.8	74·0	7.8	70.6	.70	81.9	77.5	WSW	0.0					
6 „	.870	.137	79.2	73.0	6.2	70.2	.75	79.0	77.3	SW b W	0.0					
7 „	.887	.143	78.2	73.0	5.2	70.7	.79	78.2	77.2	WSW	0.0					
8 „	.897	.206	74.9	70.6	4.3	68.4	.81	74.6	77.0	SW b W	0.1	0.05				
9 „	.918	.155	74.4	72.4	2.0	71.5	.91	75.0	76.7	„	0.0					
10 „	.923	.135	75.5	73.4	2.1	72.5	.91	76.0	76.8	SW b S	0.1					
11 „	.913	.180	75.8	72.0	3.8	70.2	.84	76.2	76.8	NNW	0.0					
Feb. 4th–Midnight	.901	.161	75.2	72.0	3.2	70.5	.87	75.2	76.7	NNW	0.0					
1 a. m.	.887	.152	75.0	71.8	3.2	70.3	.86	75.2	76.6	N	0.1					
2 „	.873	.129	74.8	72.0	2.8	70.7	.88	74.9	76.6	NE b N	0.2					
3 „	.848	.099	73.7	71.8	1.9	70.9	.92	74.2	76.5	„	0.1					
4 „	.853	.096	73.6	72.0	1.6	71·2	.93	74.2	76.4	„	0.3					
5 „	.865	.094	74.0	72.5	1.5	71.8	.93	74.5	76.4	„	0.2					
6 „	.887	.132	73.8	72.0	1.8	71.2	.92	74.2	76.3	„	0.1					
7 „	.917	.147	73.8	72.4	1.4	71.8	.94	74.6	76.2	„	0.1					
8 „	.937	.176	74.6	72.4	2.2	71.4	.90	74.7	76.3	„	0.1					
9 „	.961	.172	76.8	73.8	3.0	72.6	.87	77.0	76.4	NNE	0.1					
10 „	.967	.179	77.8	74.2	3.6	72.7	.85	78.0	76.6	„	0.1					
11 „	.953	.220	79.2	73.0	6.2	70.2	.75	79.2	76.8	NW b N	0.1		None.		None.	
Noon.	.921	.199	80.2	73.0	7.2	69.8	.72	80.2	77.0	NW b W	0.1					
1 p. m.	.888	.195	80.8	72.4	8.4	68.5	.68	80.3	77.3	W	0.2					
2 „	.864	.211	80.8	71.6	9.2	66.7	.65	80.3	77.4	„	0.3					
3 „	.852	.202	81.1	71.7	9.4	66.6	.64	80.6	77.5	„	0.2					
4 „	.851	.239	80.4	70.0	10.4	64.7	.60	79.9	77.5	„	0.5					
5 „	.858	.250	78.3	69.2	9.1	64.5	.64	78.2	77.2	W b N	0.8					
6 „	.870	.270	75.4	68.0	7.4	64.1	.69	75.2	76.8	„	1.0					
7 „	.892	.300	74.6	67.5	7.1	63.7	.70	75.0	76.5	„	2.7					
8 „	.916	.347	74.6	66.8	7.8	62.5	.67	75.0	76.5	„	1.5					
9 „	.936	.427	74.0	64.7	9.3	59.2	.62	74.2	76.5	WNW	0.4		+	1		Above 10m.
10 „	.949	.451	73.0	64.0	9.0	58.5	.62	72.9	76.2	„	0.1		+	3		2.00
11 „	.941	.475	71.0	62.2	8.8	56.5	.62	71.7	75.8	„	0.1		+	1		Above 10m.

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀∩ cirro-cumuli; ∩ cumuli; ≀— cirro-strati; ∩— cumulo-strati; and ∩≀ nimbi.	
0	L	Light mist in hor.	
0	C	A few patches of clouds in NE and E hor.	
0	C	" " " "	
0	C	" " " "	
0	C	" " " "	
0	N	" " " "	
0	N	≀ and patches of fleecy clouds along E hor.	
0	N	A few patches of fleecy clouds scattered here and there, moving NW.	
3	N	Fleecy clouds scattered about, moving ENE.	
2	L	" " " "	
0	L	A few pieces of clouds scattered here and there.	
0	L	Clear.	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°8 and 81°0. Fall of rain by Osler's Gauge 0.045 inches. Direction of Wind was abnormal on this day.
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	"	
1	N	≀ scattered about hor. from NE to SSW; light fog along E hor.	
1	N	" " " " " " "	
1	N	" " " " " " "	
1	N	" " " " " " " [NE.	
1	N	Patches of fleecy ∩≀ in S and W; ≀ scattered along E hor.; fleecy clouds, moving	
4	L	Fleecy clouds around hor.; ≀ scattered about zth.	
6	L	Fleecy clouds scattered about, moving E.	
7	C	" " " "	
5	C	" " " "	
7	C	" " " "	
6	C	" " " "	
5	C	Light ≀ in SW and W; fleecy clouds scattered about.	
4	C	" " " " " "	
6	L	Fleecy ∩≀ & ∩≀ scatd. about, moving E; sky, after full hour, covered with ∩≀; rain	
7	L	Nearly overcast with ∩≀ moving E. [at 7h. 27m. for 28m.; faint flashes of lightning	
7	L	Light ∩≀ about S & W of zth.; ∩≀ scatd. about, both moving NE. [at 7h. 20m.	
8	L	Overcast with ∩≀, moving E; rain in drops at 10h. 15m. which lasted 7m.	
8	L	Overcast with ∩≀ and ∩≀, the former moving ENE; a few stars dimly visible.	
2	L	A few scuds scattered in E and NW, moving NE; dense ≀ around hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°8 and 81°0. Range of Temperature of Free Air was 10°1, the lowest during the month. Light breezes blew after sunset.
4	C	∩≀ in W above hor., moving slowly E; ≀ scattered about hor.	
6	C	Dense ≀ around hor.; ∩≀ scattered about, moving E.	
5	C	" " " " "	
7	C	Nearly overcast with light ∩≀.	
5	L	∩≀ in SE; and ≀ scattered about. [observed at 6h. 30m.	
2	L	Light ∩≀ about NW hor.; dense fleecy clouds around hor.; rainbow in W.	
5	L	∩≀ in W, NW, and N and scud in S, both moving E; drops of rain at 7h. 42m.; a	
3	L	∩≀ scattered in S hem., moving E; fleecy ∩≀ along E hor. [rainbow in NW.	
2	N	∩≀ and ≀ scattered about, moving NE.	
3	N	∩≀ scattered about, moving SSE.	
2	N	Dense fleecy clouds scattered here and there, moving S.	
2	N	" " " " "	
1	C	Patches of fleecy clouds from N to SW hor.	
1	C	Patches of fleecy clouds along E hor.	
1	C	" " " "	
0	C	" " " "	
0	N	Clear.	
0	N	"	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	"	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet-Bulb Thermometer.	Depression of Wet-Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Feb. 5th—Midnight	29.935	29.496	71°0	61°3	9°7	54°7	0.59	71°6	75°6	WNW	0.1		+	2		Above 10m.
1 a. m.	.915	.447	70.3	62.0	8.3	56.6	.63	70.7	75.4	,,	0.0		+	1		Above 10m.
2 ,,	.907	.415	70.0	62.7	7.3	58.1	.68	70.2	75.2	,,	0.1		+	1		Above 10m.
3 ,,	.889	.407	69.0	62.0	7.0	57.5	.69	69.5	74.9	,,	0.0		+	1		Above 10m.
4 ,,	.890	.401	69.2	62.3	6.9	58.0	.69	69.3	74.7	,,	0.0					
5 ,,	.891	.437	67.8	60.6	7.2	55.7	.68	68.1	74.3	,,	0.0		+	Out of Sc.	18	0.06
6 ,,	.902	.439	67.0	60.6	6.4	56.2	.70	67.2	74.0	,,	0.1		+	1		Above 10m.
7 ,,	.924	.452	67.2	61.0	6.2	56.9	.71	68.0	73.6	,,	0.0		+	Out of Sc.	24	0.03
8 ,,	.934	.440	70.6	63.0	7.6	58.3	.67	71.2	73.7	,,	0.0		+	4		0.22
9 ,,	.949	.454	73.8	64.2	9.6	58.3	.60	74.0	74.3	,,	0.2		+	4		0.50
10 ,,	.954	.450	76.4	65.4	11.0	58.9	.56	76.6	74.7	NW b N	0.1		+	2		Above 10m.
11 ,,	.931	.397	77.8	66.8	11.0	60.6	.57	77.4	75.0	NW	0.1	None.	+	2		Above 10m.
Noon.	.898	.309	79.4	69.0	10.4	63.5	.60	79.0	75.4	W	0.2		+	9	8	1.30
1 p. m.	.851	.231	80.6	70.3	10.3	65.1	.61	80.2	75.7	NW	0.5		+	12	5	0.27
2 ,,	.828	.203	80.8	70.5	10.3	65.4	.61	80.6	76.0	,,	0.6		+	21	13	0.30
3 ,,	.812	.198	80.8	70.2	10.6	63.8	.60	80.2	76.2	,,	0.8		+	11	10	0.46
4 ,,	.813	.214	80.6	69.7	10.9	64.1	.59	80.0	76.3	,,	1.3		+	13	8	0.20
5 ,,	.820	.224	78.7	69.0	9.7	63.9	.62	78.2	76.2	,,	0.6		+	4		Above 10m.
6 ,,	.826	.230	75.4	67.9	7.5	63.9	.69	75.4	76.0	,,	0.4		+	4		0.42
7 ,,	.846	.264	74.6	67.2	7.4	63.2	.69	74.8	75.7	,,	0.4					
8 ,,	.874	.290	73.8	67.0	6.8	63.3	.71	74.2	75.5	,,	0.5					
9 ,,	.890	.304	73.6	67.0	6.6	63.4	.72	74.0	75.6	,,	0.4		+	2		0.15
10 ,,	.900	.323	73.0	66.5	6.5	62.9	.72	73.0	75.5	NW b N	0.2					
11 ,,	.905	.343	71.8	65.6	6.2	62.1	.73	72.4	75.3	,,	0.5					
Feb. 6th—Midnight	.888	.331	71.6	65.4	6.2	61.9	.73	72.0	75.2	NW b N	0.4					Above 10m.
1 a. m.	.868	.349	70.0	63.6	6.4	59.7	.72	70.5	74.9	,,	0.1					0.12
2 ,,	.854	.273	69.3	65.3	4.0	63.1	.82	70.2	74.6	,,	0.0					
3 ,,	.841	.284	69.3	64.6	4.7	61.9	.78	70.2	74.6	,,	0.0					
4 ,,	.840	.293	68.6	64.0	4.6	61.3	.79	69.2	74.4	NW	0.0					
5 ,,	.838	.336	67.2	62.0	5.2	58.7	.76	68.2	74.0	,,	0.0					
6 ,,	.860	.345	66.4	62.2	4.4	59.5	.79	66.8	73.7	,,	0.0		+	6		0.09
7 ,,	.890	.298	68.4	65.4	3.0	63.7	.86	69.2	73.5	,,	0.0					
8 ,,	.923	.314	71.2	67.2	4.0	65.1	.82	71.8	73.8	,,	0.0					
9 ,,	.949	.343	73.6	67.6	6.0	64.4	.74	73.8	74.2	,,	0.1		+	9	7	4.00
10 ,,	.953	.393	76.0	67.0	9.0	62.0	.64	75.4	74.5	,,	0.1		+	3		Above 10m.
11 ,,	.944	.353	77.4	68.4	9.0	63.7	.64	76.8	74.8	,,	0.1		+	6		Above 10m.
Noon.	.920	.352	78.3	68.0	10.3	62.5	.60	77.4	75.0	,,	0.0		+	4		Above 10m.
1 p. m.	.891	.304	79.5	69.0	10.5	63.4	.60	78.7	75.3	W b N	0.1	None.	+	6	4	Above 10m.
2 ,,	.864	.289	80.6	69.0	11.6	62.8	.57	79.4	75.6	,,	0.1		+	2		Above 10m.
3 ,,	.861	.310	81.0	68.4	12.6	61.5	.53	80.2	75.8	W	0.1		+	2		4.20
4 ,,	.869	.331	81.0	68.0	13.0	60.8	.52	79.7	76.0	W b N	0.1		+	2		5.15
5 ,,	.884	.344	79.9	67.7	12.2	60.9	.54	78.6	75.9	W	0.0		+	2		Above 10m.
6 ,,	.892	.359	75.5	66.0	9.5	60.5	.62	75.4	75.6	,,	0.0					
7 ,,	.916	.357	73.2	66.0	7.2	62.0	.69	73.8	75.3	,,	0.1					
8 ,,	.934	.377	72.8	65.8	7.0	61.9	.70	73.6	75.2	,,	0.1					
9 ,,	.948	.406	73.6	65.6	8.0	61.0	.66	74.2	75.2	WNW	0.1					
10 ,,	.963	.419	73.7	65.7	8.0	61.2	.66	73.7	75.2	,,	0.1					
11 ,,	.956	.404	72.0	65.4	6.6	61.6	.71	72.2	75.1	,,	0.0					
Feb. 7th—Midnight	.946	.399	71.4	65.0	6.4	61.3	.72	71.8	74.8	WNW	0.0					
1 a. m.	.938	.390	70.4	64.7	5.7	61.4	.74	70.8	74.7	,,	0.0					
2 ,,	.917	.360	70.2	64.9	5.3	61.9	.76	70.7	74.6	,,	0.0					
3 ,,	.908	.321	69.8	65.7	4.1	63.4	.81	70.5	74.4	,,	0.0					
4 ,,	.902	.278	70.2	67.0	3.2	65.3	.85	70.8	74.4	NW b W	0.0					
5 ,,	.907	.300	70.0	66.4	3.6	64.5	.84	70.6	74.2	NW	0.1	None.			None.	
6 ,,	.920	.313	70.0	66.4	3.6	64.5	.84	70.6	74.1	NNW	0.2					
7 ,,	.944	.322	70.4	67.0	3.4	65.2	.84	70.6	73.9	NNE	0.1					
8 ,,	.964	.355	71.0	66.8	4.2	64.6	.81	71.4	74.0	NE b N	0.2					
9 ,,	.989	.385	73.5	67.5	6.0	64.3	.74	73.7	74.3	NE	0.1					
10 ,,	30.002	.390	75.8	68.5	7.3	64.7	.70	75.6	74.6	NE b E	0.1		+	1		0.30
11 ,,	29.995	.389	78.1	69.1	9.0	64.4	.64	77.4	75.0	,,	0.1					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ∩≀ cirro-strati; ∩≀ cumulo-strati; and ≀∩ nimbi.	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°8 and 81°0. Light breezes of Wind blew in the evening. 5th February an almost cloudless day.
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	Haze along E hor.	
0	N	Mist around hor.	
0	N	Mist in hor., except in S and SW.	
0	L	Haze in hor.	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	Haze along E hor.	
0	C	A few clouds along E hor.	
0	C	" " "	
0	C	" " "	
0	N	" " "	
0	N	Clear.	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°8 and 81°0. Temperature of Free Air was 66.4 at 6 A. M., the lowest during the month.
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	A few patches of fleecy clouds along E hor.; mist in hor.	
0	N	" " " " "	
0	N	Mist along hor. from NW to SE.	
0	L	" " "	
0	L	Haze around hor.	
1	L	A few ≀ in SE and S above hor.	
1	L	" " "	
0	C	Haze along E hor.	
0	C	" "	
0	C	" "	
0	C	Clear.	
0	N	"	
0	N	A bank of clouds in SE.	
0	N	Clear.	
0	N	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°8 and 81°0. Height of Standard Barometer at 10 A. M. was 30.002 the highest during the month.
0	C	"	
0	C	"	
0	C	A few patches of fleecy clouds in W above hor.	
1	C	A few patches of clouds in W, moving SE.	
1	N	Fragments of fleecy clouds scattered here and there; mist and fog in hor.	
1	N	" " " " " " "	
0	N	" " " " " " "	
0	N	Mist along W, and fog along E hor.	
1	L	Patches of fleecy clouds about W hor.; mist along E hor.	
1	L	Patches of fleecy clouds about W hor.; ≀ above E hor.; haze in hor.	
1	L	Patches of fleecy clouds around, except in NE; haze in hor.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 Inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Feb. 7th–Noon.	29.970	29.372	79°2	69°2	10°0	64°0	0.61	78°8	75°3	NE b E	0.2					
1 p. m.	.937	.313	79.4	70.0	9.4	65.4	.63	79.1	75.5	N	0.0					
2 „	.910	.295	80.4	70.1	10.3	64.9	.60	79.2	75.6	WNW	0.3		+	2		0.45
3 „	.889	.241	80.3	71.0	9.3	66.5	.64	79.2	75.8	„	0.2		+	1		Above 10m.
4 „	.883	.232	80.0	71.0	9.0	66.6	.65	79.1	76.0	„	0.1		+	6		2.10
5 „	.885	.245	78.8	70.2	8.6	66.1	.66	78.0	75.8	„	0.3		+	2		Above 10m.
6 „	.900	.270	75.6	69.0	6.6	65.6	.73	75.8	75.6	„	0.2		+	2		Above 10m.
7 „	.919	.292	74.7	68.6	6.1	65.4	.74	75.0	75.5	„	0.1		+	2		Above 10m.
8 „	.928	.307	74.0	68.2	5.8	65.2	.75	74.4	75.5	W b N	0.2		+	1		Above 10m.
9 „	.931	.312	73.6	68.0	5.6	65.1	.76	74.2	75.5	„	0.1					
10 „	.931	.307	73.2	68.0	5.2	65.3	.77	73.8	75.4	WNW	0.1		+	Out of Sc.	70	0.04
11 „	.926	.309	72.0	67.4	4.6	65.0	.80	72.2	75.2	„	0.1		+	Out of Sc.	35	0.04
Feb. 9th–Midnight	.870	.284	73.6	67.0	6.6	63.4	.72	73.8	75.7	NNW	0.4					
1 a. m.	.861	.332	71.3	64.4	6.9	60.3	.70	71.8	75.3	„	0.0					
2 „	.848	.245	71.2	66.7	4.5	64.3	.80	71.8	75.3	„	0.0					
3 „	.832	.263	69.6	65.1	4.5	62.5	.80	70.6	74.8	„	0.0					
4 „	.819	.173	70.2	67.7	2.5	66.4	.89	71.0	74.7	„	0.0		+	1		Above 10m.
5 „	.833	.304	68.8	63.4	5.2	60.3	.76	69.4	74.5	„	0.0					
6 „	.858	.354	67.6	62.2	5.4	58.9	.75	68.4	74.2	„	0.0		+	4		0.18
7 „	.881	.360	68.2	63.0	5.2	59.9	.76	69.4	73.8	„	0.0		+	12	10	0.14
8 „	.903	.299	73.2	67.4	5.8	64.3	.75	73.4	74.2	„	0.0		+	6	6	0.06
9 „	.918	.338	75.4	67.4	8.0	63.1	.67	75.2	74.6	„	0.1		+	1		0.20
10 „	.909	.338	77.4	67.8	9.6	62.6	.62	76.8	74.9	N b W	0.1					
11 „	.918	.319	80.0	69.5	10.5	64.1	.60	79.8	75.3	„	0.0		+	4		2.00
Noon.	.896	.278	81.6	70.6	11.0	65.0	.59	80.7	75.7	„	0.3		+	10	8	1.30
1 p. m.	.878	.182	82.5	73.0	9.5	68.6	.65	81.7	76.1	WNW	0.3		+	4	3	1.05
2 „	.863	.151	82.8	73.5	9.3	69.3	.65	82.2	76.5	NW b W	0.6		+	14	10	1.25
3 „	.849	.141	83.1	73.5	9.6	69.2	.64	82.7	76.7	„	0.4		+	8	5	9.40
4 „	.860	.161	83.6	73.4	10.2	68.8	.63	82.9	77.0	„	0.5		+	6	4	0.47
5 „	.867	.186	81.2	72.2	9.0	68.0	.66	80.7	76.9	NW	0.3					
6 „	.874	.199	77.8	71.0	6.8	67.7	.73	78.0	76.6	„	0.2		+	4		1.02
7 „	.884	.198	76.8	71.0	5.8	68.2	.76	76.8	76.5	„	0.4		+	10	10	1.30
8 „	.898	.201	75.8	71.0	4.8	68.7	.80	76.0	76.5	„	0.1		+	5		0.18
9 „	.911	.231	74.8	70.2	4.6	67.9	.80	74.8	76.3	„	0.0		+	20	18	0.20
10 „	.918	.218	73.4	70.4	3.0	68.8	.89	74.0	76.1	„	0.0		+	18	15	0.15
11 „	.918	.254	73.2	69.2	4.0	67.2	.82	73.2	76.0	„	0.0		+	14	12	0.22
Feb. 10th–Midnight	.922	.350	72.6	66.2	6.4	62.7	.72	73.2	75.8	NW	0.2		+	16	14	0.40
1 a. m.	.903	.299	72.0	67.0	5.0	64.3	.78	72.2	75.5	„	0.1		+	10	8	0.35
2 „	.895	.257	71.9	68.0	3.9	66.0	.83	72.2	75.5	„	0.0		+	Out of Sc.	45	0.26
3 „	.892	.346	70.6	64.7	5.9	61.3	.74	71.2	75.3	„	0.0		+	4	3	7.05
4 „	.893	.307	70.7	66.0	4.7	63.4	.79	71.3	75.2	„	0.0		+	4		
5 „	.907	.328	71.4	66.0	5.4	63.0	.76	71.8	75.0	NW b N	0.1		+	6	6	0.16
6 „	.917	.394	69.6	63.6	6.0	60.0	.73	70.0	74.6	„	0.2		+	4		
7 „	.935	.419	69.8	63.4	6.4	59.5	.72	70.8	74.4	„	0.1					
8 „	.967	.484	72.2	63.2	9.0	57.6	.62	73.0	74.5	„	0.0		+	6	6	0.24
9 „	.993	.495	75.8	65.0	10.8	58.5	.57	76.0	75.0	„	0.0		+	2		Above 10m.
10 „	.999	.439	79.0	68.0	11.0	62.0	.58	78.8	75.4	„	0.1		+	1		Above 10m.
11 „	.989	.375	81.4	70.4	11.0	64.8	.59	80.9	75.9	„	0.1		+	2		Above 10m.
Noon.	.959	.298	82.4	72.0	10.4	68.1	.61	81.4	76.3	„	0.3					
1 p. m.	.926	.238	83.2	73.0	10.2	68.3	.62	82.3	76.6	NW	0.3		+	2		8.20
2 „	.888	.173	83.9	73.9	10.0	69.5	.63	83.2	77.0	„	0.2					
3 „	.878	.155	84.6	74.3	10.3	69.8	.63	83.8	77.3	„	0.3					
4 „	.877	.156	84.1	74.1	10.0	69.7	.63	83.2	77.5	„	0.5					
5 „	.899	.227	81.2	71.4	9.8	66.6	.63	80.2	77.2	NW b N	0.7					
6 „	.884	.236	78.4	70.4	8.0	66.5	.68	78.2	77.0	„	0.7					
7 „	.902	.194	77.4	71.8	5.6	69.2	.77	77.2	76.8	„	1.0		+	1		Above 10m.
8 „	.927	.266	76.6	70.2	6.4	67.1	.74	76.6	76.7	„	0.4		+	1		Above 10m.
9 „	.949	.349	75.4	68.0	7.4	64.1	.69	75.6	76.7	„	0.1		+	6		0.30
10 „	.955	.429	74.4	65.4	9.0	60.1	.63	75.0	76.4	NNW	0.3		+	9	8	Above 10m.
11 „	.954	.434	73.8	65.0	8.8	59.8	.63	74.4	76.2	„	0.3		+	4		Above 10m.

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∖ cirri; ∿ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ⌒ cumulo-strati; and ∿ nimbi.	
1	L	Patches of fleecy clouds around except in NE; haze in hor.	
1	C	Fleecy clouds scattered from SW to N hor.	
1	C	Fleecy clouds scattered around hor.	
0	C	Fleecy clouds scattered in S, SW, W, and E hor.	
0	C	" " " " "	
0	N	Patches of fleecy clouds about hor. from S to W; mist along E hor.	
0	N	" " " " " " "	
0	N	Clear.	
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°0. Daily Range of Barometer was 0.099, the lowest during the month.
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	N	"	9th February was the third cloudless day from the beginning of the year.
0	N	Mist in hor.	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	Clear.	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°8 and 81°0. Light breezes in the evening.
0	C	"	
0	C	"	
0	C	"	
0	C	"	10th February was the fourth cloudless day from the beginning of the year.
0	N	"	
0	N	Mist in hor.	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	Clear.	
0	N	"	
0	L	"	
0	L	"	
0	L	"	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer. ●	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 0 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in seconds between same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Feb. 11th-Midnight	29.944	29.427	73°2	64°7	8°5	59°6	0.64	73°7	76°0	NNW	0.4		−	4		Above 10m.
1 a. m.	.932	.434	73.0	64.0	9.0	58.5	.62	73.2	75.9	„	0.1		−	1		Above 10m.
2 „	.919	.451	72.4	62.8	9.6	56.6	.60	72.7	75.7	„	0.2		−	4		Above 10m.
3 „	.914	.463	71.8	62.0	9.8	55.5	.59	72.2	75.5	„	0.1		−	3		Above 10m.
4 „	.911	.464	71.3	61.7	9.6	55.3	.59	71.8	75.3	„	0.0		−	2		Above 10m.
5 „	.907	.409	71.4	63.4	8.0	58.5	.65	72.1	75.1	„	0.0		−	4		Above 10m.
6 „	.935	.411	71.2	64.2	7.0	60.0	.67	71.4	75.0	„	0.0		−	4		Above 10m.
7 „	.957	.480	70.6	62.4	8.2	57.2	.65	71.2	74.7	„	0.0		−	1		Above 10m.
8 „	.977	.431	74.4	66.0	8.4	61.3	.65	74.6	74.9	„	0.1		−	Out of Sc.	55	0.18
9 „	.993	.432	78.0	67.7	10.3	62.1	.60	78.0	75.4	„	0.1		−	Out of Sc.	25	0.40
10 „	30.000	.416	80.4	69.2	11.2	63.3	.58	80.0	76.0	„	0.1		−	10	8	0.25
11 „	29.986	.323	82.2	72.0	10.2	67.2	.62	81.0	76.3	„	0.1	None.	−	7	7	1.30
Noon.	.955	.246	84.8	74.0	10.8	69.2	.61	83.7	76.8	NW b N	0.5		−	1		Above 10m.
1 p. m.	.913	.207	85.0	74.0	11.0	69.1	.60	84.9	77.3	„	0.4		−	Out of Sc.	10	1.20
2 „	.882	.151	86.2	75.0	11.2	70.2	.60	85.2	77.7	„	0.4		−	3		0.25
3 „	.860	.112	85.7	75.3	10.4	70.9	.63	84.9	78.0	NW	0.3					
4 „	.851	.103	84.6	75.0	9.6	70.9	.65	84.1	78.2	„	0.4					
5 „	.854	.106	82.6	74.4	8.2	70.9	.69	82.1	78.0	„	0.3					
6 „	.866	.170	79.2	72.0	7.2	68.6	.71	79.2	77.7	„	0.5					
7 „	.880	.180	78.2	71.8	6.4	68.8	.74	78.4	77.5	NW b N	1.0					
8 „	.893	.208	77.6	71.2	6.4	68.1	.74	78.0	77.5	NNW	0.4					
9 „	.909	.237	76.5	70.5	6.0	67.6	.75	76.5	77.4	„	0.3					
10 „	.913	.313	74.8	67.8	7.0	64.1	.71	75.2	77.2	„	0.2					
11 „	.911	.320	74.4	67.4	7.0	63.7	.71	74.8	76.9	„	0.1					
Feb. 12th-Midnight	.904	.361	73.2	65.5	7.7	61.1	.67	74.0	76.6	NNW	0.2					
1 a. m.	.899	.358	71.6	64.9	6.7	61.0	.71	72.2	76.4	„	0.0		+	6		1.10
2 „	.889	.316	71.6	65.9	5.7	62.7	.75	73.4	76.1	„	0.0					
3 „	.879	.337	72.4	65.2	7.2	61.0	.69	73.0	76.1	„	0.1		+	11	10	2.45
4 „	.878	.369	72.8	64.3	8.5	59.2	.64	73.3	76.0	„	0.1		+	13	10	2.50
5 „	.882	.425	73.4	62.8	10.6	55.9	.57	74.0	75.7	„	0.1		+	1		Above 10m.
6 „	.899	.461	73.0	62.0	11.0	54.7	.55	73.6	75.6	N b W	0.1		+	1		Above 10m.
7 „	.932	.397	74.2	65.6	8.6	60.6	.64	74.6	75.5	„	0.1		+	8	8	0.20
8 „	.956	.387	77.2	67.5	9.7	63.5	.61	77.4	75.8	N	0.1		+	2		Above 10m.
9 „	.980	.409	79.8	68.6	11.2	62.6	.57	80.0	76.3	NNE	0.2					
10 „	.985	.450	82.8	68.5	14.3	60.6	.49	82.8	76.8	„	0.1					
11 „	.966	.454	86.3	69.0	17.3	59.3	.42	85.4	77.4	„	0.1					
Noon.	.932	.450	89.0	69.0	20.0	57.5	.36	89.2	78.0	„	0.1	None.	+	2		Above 10m.
1 p. m.	.888	.150	89.1	76.0	13.1	70.5	.55	86.7	78.5	N	0.2		+	7	5	Above 10m.
2 „	.852	.112	87.8	75.4	12.4	70.6	.57	86.5	78.7	WNW	0.4		+	1		Above 10m.
3 „	.828	28.992	86.2	77.7	8.5	74.3	.69	85.1	78.7	NW b W	0.6		+	8	6	4.30
4 „	.830	29.051	85.4	76.0	9.4	72.1	.66	84.5	78.9	NW	0.5		+	4		1.50
5 „	.837	.078	83.6	75.0	8.6	71.3	.68	83.2	78.8	„	0.3		+	4		0.50
6 „	.840	.109	80.0	73.2	6.8	70.2	.73	80.2	78.6	„	0.1		+	10	8	0.15
7 „	.853	.123	78.8	72.8	6.0	70.2	.76	79.2	78.4	„	0.6		+	3		0.40
8 „	.878	.134	78.2	73.0	5.2	70.7	.79	78.6	78.3	NNW	0.2		+	10	8	0.18
9 „	.894	.203	77.0	71.2	5.8	68.4	.76	77.4	78.2	„	0.1		+	10	8	0.20
10 „	.902	.309	75.8	68.0	7.8	63.9	.68	76.0	78.0	„	0.1		+	5		Above 10m.
11 „	.900	.309	74.4	67.4	7.0	63.7	.71	75.0	77.6	„	0.1		+	8	6	2.00
Feb. 13th-Midnight	.894	.375	72.8	64.6	8.2	59.7	.65	73.6	77.3	NNW	0.0		+	3		Above 10m.
1 a. m.	.881	.257	73.2	68.0	5.2	65.4	.77	74.2	77.0	„	0.0		+	3		Above 10m.
2 „	.862	.303	73.2	66.0	7.2	62.0	.69	74.1	76.9	„	0.0					
3 „	.849	.304	73.4	65.0	8.4	61.3	.65	74.4	76.7	„	0.1		+	1		Above 10m.
4 „	.847	.381	73.2	63.0	10.2	56.5	.58	73.5	76.6	„	0.1					
5 „	.852	.324	73.4	65.1	8.3	60.3	.65	73.8	76.3	„	0.0	None.				
6 „	.874	.270	73.8	67.6	6.2	64.3	.74	74.2	76.3	„	0.0		+	12	10	0.06
7 „	.904	.283	74.0	68.2	5.8	65.2	.75	74.2	76.2	„	0.0		+	Out of Sc.	30	0.15
8 „	.930	.459	76.0	64.2	11.8	56.8	.54	76.6	76.2	„	0.1		+	4		0.06
9 „	.955	.382	80.8	69.0	11.8	62.7	.56	80.8	77.0	„	0.1					
10 „	.954	.450	85.8	68.6	17.2	58.9	.42	83.8	77.6	NNE	0.4		+	2		Above 10m.
11 „	.945	.250	86.0	74.0	12.0	68.6	.57	84.2	78.0	„	0.1		+	4		Above 10m.

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∿ cirri; ∿∿ cirro-cumuli; ⌒ cumuli; ⌣ cirro-strati; ⌒ cumulo-strati; and ∿∿ nimbi.	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°7 and 81°0. Light breezes in the evening. 11*th* February was the fifth cloudless day from the beginning of the year.
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	Mist in hor.	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	Clear.	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°7 and 81°0. 12th February was the sixth cloudless day from the beginning of the year.
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	Mist in hor.	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	Clear.	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°7 and 81°0. Light breezes in the evening. Temperature of *Dew*-Point was low in the morning. 13th February was the seventh cloudless day from the beginning of the year.
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	Mist in hor.	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 Inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Interval of Time in seconds elapsing after the cause of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Feb. 13th-Noon.	29.914	29.164	86°6	75°6	11°0	71°0	0.61	85°8	78°3	N	0.0		+	4		Above 10m.
1 p.m.	.873	.086	85.4	76.2	9.2	72.5	.66	84.3	78.6	NW	0.6		+	13	13	1.30
2 „	.828	.041	84.6	76.0	8.6	72.5	.68	84.2	78.6	„	0.8		+	7	6	5.40
3 „	.801	.039	85.1	75.5	9.6	71.4	.65	84.7	78.9	„	1.0		+	2		3.10
4 „	.791	.031	84.6	74.6	10.0	71.4	.64	83.9	79.0	„	1.5		+	2		4.50
5 „	.807	.084	82.8	73.8	9.0	69.8	.66	82.3	78.8	„	1.0	None.		2		Above 10m.
6 „	.823	.102	79.0	72.6	6.4	69.7	.74	79.0	78.5	„	1.0					
7 „	.837	.135	78.0	71.8	6.2	68.9	.75	78.3	78.2	„	1.5					
8 „	.866	.186	77.4	71.0	6.4	67.9	.74	77.9	78.2	„	1.5					
9 „	.886	.318	75.8	67.2	8.6	62.5	.65	75.8	78.1	NW b N	1.0					
10 „	.901	.301	75.4	68.0	7.4	64.0	.69	75.8	77.8	„	0.1		+	Out of Sc.	40	0.10
11 „	.901	.241	76.0	70.0	6.0	67.0	.75	76.4	77.7	„	0.3		+	2		Above 10m.
Feb. 14th-Midnight	.887	.133	76.2	72.7	3.5	71.1	.85	76.4	77.7	NW b N	0.2					
1 a.m.	.881	.153	75.6	71.8	3.8	70.0	.84	75.9	77.5	„	0.2					
2 „	.858	.141	74.0	71.0	3.0	69.6	.87	74.7	77.3	„	0.2					
3 „	.846	.167	74.3	70.0	4.3	67.9	.81	74.9	77.2	„	0.4					
4 „	.850	.226	73.2	68.0	5.2	65.3	.77	73.6	77.1	NW	0.1					
5 „	.856	.271	70.8	66.0	4.8	63.3	.79	72.2	76.6	„	0.0					
6 „	.879	.317	70.6	65.2	5.4	62.1	.76	71.4	76.5	„	0.0					
7 „	.906	.280	70.4	67.0	3.4	67.8	.84	71.8	76.2	„	0.0		+	13	13	0.12
8 „	.931	.292	74.8	69.0	5.8	66.0	.75	75.2	76.2	„	0.0		+	Out of Sc.	32	0.08
9 „	.951	.355	77.8	68.7	9.1	63.9	.64	77.7	76.7	„	0.1		+	11	10	0.30
10 „	.953	.334	80.4	70.2	10.2	65.1	.61	80.2	77.0	NW b N	0.2					
11 „	.942	.294	81.3	71.3	10.0	66.5	.62	81.8	77.3	„	0.3					
Noon.	.913	.167	82.8	74.4	8.4	70.8	.68	82.0	77.7	NW b W	0.5	None.				
1 p.m.	.872	.087	83.0	75.5	7.5	72.4	.72	82.2	78.0	„	0.2		+	1		Above 10m.
2 „	.844	.069	82.4	75.0	7.2	71.9	.68	81.2	78.0	„	0.1		+	1		Above 10m.
3 „	.832	.038	83.0	75.7	7.3	72.8	.72	82.6	78.2	NW	0.4					
4 „	.825	.029	82.8	75.7	7.1	72.8	.73	82.2	78.4	„	0.7		+	1		Above 10m.
5 „	.825	.025	80.9	75.3	5.6	73.0	.78	80.2	78.4	„	0.5					
6 „	.845	.076	77.6	73.5	4.1	71.7	.83	77.2	78.1	„	0.2					
7 „	.851	.082	75.9	73.0	2.9	71.7	.88	76.0	77.9	„	0.2					
8 „	.878	.129	74.4	72.0	2.4	70.9	.89	74.6	77.5	„	0.0					
9 „	.893	.142	74.2	72.0	2.2	71.0	.90	74.2	77.5	„	0.0					
10 „	.893	.142	72.9	71.7	1.2	71.0	.95	73.0	77.2	„	0.0					
11 „	.900	.157	71.6	71.0	0.6	70.7	.97	72.2	76.9	„	0.0					
Feb. 16th-Midnight	.857	.178	73.6	69.8	3.8	67.9	.83	74.2	76.7	N b W	0.0					
1 a.m.	.831	.156	73.6	70.0	3.6	67.7	.84	74.2	76.6	„	0.0					
2 „	.817	.093	73.4	71.0	2.4	69.9	.89	74.1	76.5	„	0.0					
3 „	.806	.078	73.0	71.0	2.0	70.0	.91	73.8	76.5	„	0.0					
4 „	.800	.143	71.7	68.5	3.2	66.9	.86	72.2	76.2	„	0.0					
5 „	.810	.216	70.0	66.0	4.0	63.8	.82	70.8	75.7	„	0.0					
6 „	.825	.224	69.6	66.0	3.6	64.2	.84	70.2	75.5	„	0.0					
7 „	.859	.200	71.2	68.4	2.8	67.0	.87	72.0	75.6	„	0.0					
8 „	.876	.163	74.4	71.0	3.4	69.4	.85	74.8	75.6	„	0.0					
9 „	.899	.183	77.4	72.0	5.4	69.5	.78	77.0	76.2	N	0.0		+	12	10	0.20
10 „	.901	.242	79.0	70.9	8.1	67.0	.68	78.7	76.4	„	0.0					
11 „	.888	.161	82.1	73.7	8.4	70.0	.68	81.4	76.8	„	0.1					
Noon.	.861	.095	83.0	75.0	8.0	71.6	.70	82.2	77.3	NNW	0.3	None.				
1 p.m.	.827	.038	83.4	75.7	7.7	72.6	.71	82.9	77.6	„	0.5					
2 „	.806	.091	84.4	76.4	8.0	73.2	.70	83.7	77.9	„	0.4					
3 „	.790	28.992	85.0	76.4	8.6	72.9	.68	84.2	78.3	„	0.4					
4 „	.787	.982	84.8	76.5	8.3	73.2	.69	84.0	78.5	„	1.5					
5 „	.791	29.014	83.8	75.5	8.3	72.0	.69	83.2	78.5	„	0.3					
6 „	.800	.039	80.0	74.0	6.0	71.4	.76	80.0	78.2	„	0.2					
7 „	.820	.088	78.4	73.0	5.4	70.6	.78	78.4	78.0	„	0.5					
8 „	.846	.127	77.7	72.2	5.5	69.7	.78	77.8	77.9	N	0.1					
9 „	.858	.158	76.2	71.2	5.0	68.8	.79	76.2	77.8	„	0.1					
10 „	.862	.191	75.0	70.0	5.0	67.5	.79	75.2	77.6	„	0.1					
11 „	.852	.237	74.0	68.0	6.0	64.9	.74	74.2	77.3	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ⌒i cirri; ⌒i cirro-cumuli; ⌒i cumuli; ⌒i cirro-strati; ⌒i cumulo-strati; and ⌒i nimbi.	
0	L	Mist in hor.	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	Clear.	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°6 and 81°0. 14th February was the eighth cloudless day from the beginning of the year.
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	"	
0	N	Mist around hor.	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	C	Clear, with dew falling.	
0	C	" "	
0	L	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°6 and 81°0.
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	Gauze-like mist around hor.	
0	N	" " "	
0	L	Mist around hor.	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	Light ⌒i scattered in E above hor.	
0	C	" " "	
1	C	Light ⌒i scattered about hor. from E to SW.	
1	N	Light ⌒i scattered in E, SE, S, and SW.	
1	N	" " " "	
0	N	Clear.	
0	N	"	
0	L	"	
0	L	"	
0	L	"	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 0 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Feb. 17th-Midnight	29.838	29.227	72°6	67°4	5°2	64°7	0.77	72°7	77°1	N	0.0					
1 a. m.	.829	.216	71.2	67.0	4.2	64.8	.81	71.8	76.6	„	0.0					
2 „	.818	.093	72.0	70.6	1.4	69.9	.94	72.3	76.6	„	0.0					
3 „	.812	.119	71.5	69.5	2.0	68.5	.91	71.8	76.4	„	0.0					
4 „	.812	.084	73.0	71.0	2.0	70.0	.91	73.2	76.4	„	0.0					
5 „	.825	.111	72.4	70.4	2.0	69.4	.91	73.0	76.3	„	0.0					
6 „	.845	.186	70.6	68.2	2.4	67.0	.89	71.2	76.1	„	0.0					
7 „	.873	.282	70.2	65.8	4.4	63.7	.80	71.2	75.7	„	0.0					
8 „	.896	.186	75.4	71.4	4.0	69.5	.79	75.4	76.1	N b E	0.0					
9 „	.907	.181	77.8	72.4	5.4	69.9	.78	77.8	76.5	NE b N	0.1					
10 „	.922	.253	81.6	72.0	9.6	67.4	.64	81.0	77.0	„	0.1					
11 „	.901	.259	82.8	71.6	11.2	66.2	.59	81.9	77.4	„	0.0	None.	+	1	None.	Above 10m.
Noon.	.877	.220	84.0	72.4	11.6	66.9	.58	83.0	77.6	„	0.0					
1 p. m.	.838	.053	85.8	76.3	9.5	72.4	.66	84.2	78.1	NNW	0.0					
2 „	.811	28.997	86.1	77.1	9.0	73.5	.67	85.0	78.5	NW b N	0.1					
3 „	.798	.962	87.4	78.0	9.4	74.3	.66	86.4	78.8	„	0.0					
4 „	.789	29.001	87.7	76.9	10.8	72.5	.62	86.4	79.1	„	0.2					
5 „	.798	.033	86.6	76.0	10.6	71.6	.62	85.8	79.2	„	0.1					
6 „	.805	.035	82.6	75.0	7.6	71.8	.71	82.2	79.0	NW b N	0.2					
7 „	.827	.090	80.5	73.5	7.0	70.4	.73	80.4	78.8	„	0.2					
8 „	.859	.128	79.4	73.0	6.4	70.2	.74	79.6	78.7	„	0.1					
9 „	.875	.230	77.4	70.0	7.4	66.3	.70	77.6	78.5	„	0.1					
10 „	.886	.313	76.6	67.6	9.0	62.7	.64	76.6	78.3	„	0.0					
11 „	.884	.137	76.6	72.6	4.0	70.8	.83	76.6	78.3	„	0.0					
Feb. 18th-Midnight	.872	.130	75°0	72.0	3.0	70.6	.87	75.0	78.0	NW b N	0.0					
1 a. m.	.853	.100	74.0	72.0	2.0	71.1	.91	74.5	77.7	„	0.0					
2 „	.845	.143	72.8	70.2	2.6	68.9	.88	73.4	77.4	„	0.0					
3 „	.842	.171	71.6	68.9	2.7	67.5	.88	72.2	77.1	„	0.0					
4 „	.841	.177	71.0	68.5	2.5	67.2	.88	71.6	76.9	„	0.0					
5 „	.850	.164	71.2	69.2	2.0	68.2	.91	71.8	76.6	„	0.0					
6 „	.870	.191	70.6	68.8	1.8	67.9	.92	71.4	76.4	NNW	0.0					
7 „	.900	.256	70.8	67.8	3.0	66.3	.86	72.2	76.2	„	0.0					
8 „	.934	.196	75.4	72.0	3.4	70.5	.85	75.6	76.5	„	0.1					
9 „	.955	.268	77.1	71.1	6.0	68.2	.75	76.7	76.8	„	0.1					
10 „	.970	.339	78.6	70.0	8.6	65.6	.66	78.5	77.0	„	0.1					
11 „	.947	.250	81.8	72.8	9.0	68.7	.66	81.2	77.4	„	0.0	None.	None.	None.	None.	None.
Noon.	.919	.265	83.0	72.0	11.0	66.7	.59	82.2	77.7	„	0.1					
1 p. m.	.880	.114	85.5	75.7	9.8	71.6	.64	84.0	78.2	NW	0.2					
2 „	.850	.025	85.8	77.3	8.5	73.9	.69	84.4	78.5	NW b N	0.2					
3 „	.836	.077	87.2	76.0	11.2	71.3	.60	86.2	78.8	„	0.2					
4 „	.829	.076	86.8	75.8	11.0	71.1	.61	85.6	79.0	NW	0.4					
5 „	.840	.075	85.2	75.6	9.6	71.7	.65	84.2	79.2	NW b N	0.2					
6 „	.856	.090	81.6	74.6	7.0	71.6	.73	81.2	79.0	„	0.2					
7 „	.870	.107	79.8	74.0	5.8	71.5	.77	80.0	78.8	„	0.2					
8 „	.896	.138	79.0	73.6	5.4	71.3	.78	79.2	78.6	WNW	0.2					
9 „	.922	.226	77.2	71.4	5.8	68.6	.76	77.0	78.5	„	0.0					
10 „	.924	.296	76.1	69.1	7.0	65.5	.71	76.4	78.2	„	0.1					
11 „	.912	.254	76.2	70.0	6.2	66.9	.74	76.4	78.1	„	0.0					
Feb. 19th-Midnight	.905	.220	75.0	70.4	4.6	68.1	.80	75.6	77.6	NW b N	0.0					
1 a. m.	.885	.104	76.5	73.5	3.0	72.2	.87	76.7	77.9	„	0.1					
2 „	.871	.104	76.1	73.0	3.1	71.6	.87	76.2	77.9	„	0.2					
3 „	.851	.133	75.6	71.5	4.1	69.6	.83	75.7	77.8	„	0.4					
4 „	.857	.226	74.6	68.7	5.9	65.6	.75	74.9	77.5	„	0.2					
5 „	.869	.265	72.0	67.0	5.0	64.3	.78	72.3	77.0	„	0.0					
6 „	.885	.268	72.0	67.4	4.6	65.0	.80	72.6	77.0	„	0.0	None.			None.	
7 „	.917	.203	73.6	70.8	2.8	69.4	.88	74.1	76.8	„	0.1					
8 „	.943	.274	75.8	70.2	5.6	67.5	.76	76.2	76.9	NE b E	0.2					
9 „	.959	.361	78.5	69.0	9.5	64.0	.63	78.4	77.3	„	0.2					
10 „	.971	.304	81.2	71.8	9.4	67.3	.64	81.0	77.6	ENE	0.2		+	1		Above 10m.
11 „	.952	.288	82.7	72.2	10.5	67.2	.61	82.4	78.0	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∿ cirri; ∿∿ cirro-cumuli; ⌒ cumuli; ⌣ cirro-strati; ⌒⌣ cumulo-strati; and ∿⌣ nimbi.	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°6 and 81°0.
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	N	Clear; dew falling.	17th February was the ninth cloudless day from the beginning of the year.
0	N	" "	
0	N	Mist around hor.	
0	N	" "	
0	L	Mist in hor.	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	Clear.	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°6 and 81°0.
0	C	Clear; dew falling.	18th February was the tenth cloudless day from the beginning of the year.
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	Gauze-like mist around hor.	
0	N	Mist in hor.	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	N	" "	
0	N	" "	
0	N	Clear.	
0	N	"	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°4 and 81°0. Temperature of Free Air at 3 P. M. was 90°3, the highest during the month. Daily Range of Temperature of Air was 18°3, the highest during the month.
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	"	
0	N	Mist around hor.	
0	N	" "	
0	L	" "	
0	L	" "	19th February was the eleventh cloudless day from the beginning of the year.
0	L	" "	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Feb. 19th–Noon.	29.925	29.316	87°0	72°0	15°0	64°6	0.49	85°6	78°5	ENE	0.0					
1 p. m.	.874	.169	88.5	75.0	13.5	69.0	.54	87.2	79.0	W b S	0.0					
2 „	.837	.055	90.1	77.4	12.7	72.2	.57	88.9	79.5	W	0.0		+	1		Above 10m.
3 „	.819	.015	90.3	78.0	12.3	73.1	.58	89.1	80.0	WNW	0.1					
4 „	.817	28.982	89.7	78.6	11.1	74.3	.62	88.3	80.1	W	0.1					
5 „	.822	.963	87.6	78.6	9.0	75.2	.68	86.6	80.2	W b S	0.1					
6 „	.841	.985	83.4	77.4	6.0	75.1	.77	83.2	80.0	W	0.0					
7 „	.871	29.046	80.4	75.8	4.6	73.9	.81	80.2	79.6	„	0.0	None.				
8 „	.891	.023	79.4	76.6	2.8	75.5	.88	79.2	79.4	„	0.0					
9 „	.916	.060	78.4	76.0	2.4	75.1	.90	78.7	79.3	NW b N	0.0					
10 „	.919	.057	77.8	76.0	1.8	75.3	.92	78.2	79.2	„	0.0					
11 „	.913	.052	77.2	75.8	1.4	75.2	.94	77.7	79.1	„	0.0					
Feb. 20th–Midnight	.902	.140	75.2	72.6	2.6	71.4	.89	76.2	78.8	NW b N	0.0					
1 a. m.	.889	.196	75.1	70.7	4.4	68.8	.81	75.4	78.6	„	0.0					
2 „	.871	.107	74.7	72.5	2.2	71.5	.90	75.1	78.3	„	0.0					
3 „	.861	.071	74.0	73.0	1.0	72.6	.96	74.7	78.2	„	0.0					
4 „	.862	.055	74.0	73.5	0.5	73.2	.98	74.7	78.1	„	0.0					
5 „	.863	.117	73.0	71.5	1.5	70.8	.93	73.6	77.8	„	0.0					
6 „	.884	.179	72.6	70.2	2.4	69.0	.90	73.4	77.6	„	0.1					
7 „	.905	.161	74.2	71.8	2.4	70.7	.89	75.0	77.5	N b W	0.1					
8 „	.930	.161	77.2	73.4	3.8	71.7	.84	77.4	77.6	„	0.1					
9 „	.945	.240	78.4	72.0	6.4	69.0	.74	78.4	78.0	NNE	0.2					
10 „	.943	.207	80.6	73.5	7.1	70.4	.72	80.2	78.2	„	0.1					
11 „	.932	.207	82.0	73.6	8.4	69.9	.68	82.0	78.5	„	0.1					
Noon.	.911	.151	86.3	75.8	10.5	71.4	.62	86.0	79.0	„	0.1	None.				
1 p. m.	.884	.047	87.3	78.0	9.3	74.4	.66	85.4	79.5	NW	0.2		+ + +	1		Above 10m.
2 „	.843	28.945	87.5	79.5	8.0	76.6	.71	86.2	79.7	W b S	0.2		+ + +	5	2	1.30
3 „	.832	.950	87.0	79.0	8.0	76.0	.71	86.2	80.0	SW b W	0.1		+	6	2	6.45
4 „	.828	.934	87.0	79.3	7.7	76.3	.73	85.7	80.2	W b S	0.1		+	1		4.20
5 „	.836	.922	85.6	79.4	6.2	77.1	.77	84.3	80.1	WSW	0.1					
6 „	.851	.960	82.4	78.0	4.4	76.3	.83	82.0	80.0	SW b W	0.0					
7 „	.881	29.002	79.8	77.0	2.8	75.9	.92	79.8	79.7	WSW	0.0					
8 „	.905	.052	78.3	75.9	2.4	75.0	.90	78.3	79.5	„	0.0					
9 „	.925	.076	77.6	75.6	2.0	74.8	.92	77.7	79.4	„	0.0					
10 „	.924	.084	77.0	75.2	1.8	74.5	.92	77.2	79.2	„	0.0					
11 „	.914	.065	76.2	75.2	1.0	74.8	.96	76.6	79.1	„	0.0					
Feb. 21st–Midnight	.904	.055	76.2	75.2	1.0	74.8	.96	76.2	79.0	SW b S	0.0					
1 a. m.	.888	.038	75.4	75.0	0.4	74.8	.98	76.1	78.8	„	0.0					
2 „	.874	.028	75.1	74.8	0.3	74.7	.99	75.6	78.6	„	0.0					
3 „	.865	.026	75.0	74.6	0.4	74.4	.98	75.5	78.5	SSW	0.0					
4 „	.850	.027	74.4	74.0	0.4	73.8	.98	75.0	78.3	S b W	0.0					
5 „	.861	.009	74.2	74.7	-0.5	74.9	1.02	75.2	78.1	„	0.0					
6 „	.881	.038	74.6	74.6	0.0	74.6	1.00	75.2	78.1	SE b E	0.0					
7 „	.903	.068	74.4	74.6	-0.2	74.7	1.01	75.0	78.0	E b N	0.1					
8 „	.927	.114	73.2	73.4	-0.2	73.5	1.01	73.6	77.8	NE b E	0.1					
9 „	.945	.142	73.8	73.3	0.5	73.1	.98	74.2	77.7	ENE	0.0					
10 „	.944	.144	75.1	73.6	1.5	73.0	.93	75.2	77.8	NE	0.1					
11 „	.933	.110	77.8	75.0	2.8	73.8	.88	78.0	78.0	„	0.0	None.	None.	None.	None.	None.
Noon.	.901	.041	80.8	76.8	4.0	75.2	.84	80.4	78.4	W	0.2					
1 p. m.	.861	28.991	82.6	77.6	5.0	75.6	.80	82.2	78.8	W b N	0.4					
2 „	.829	.952	83.6	78.0	5.6	75.8	.78	82.9	79.0	WNW	0.3					
3 „	.807	.934	84.0	78.0	6.0	75.7	.77	83.2	79.3	NW b W	0.7					
4 „	.794	.913	84.0	78.2	5.8	76.0	.78	83.4	79.5	NW	1.0					
5 „	.791	.914	82.9	77.8	5.1	75.8	.80	82.6	79.5	„	0.8					
6 „	.807	.977	80.0	75.8	4.2	74.1	.83	80.0	79.4	„	0.6					
7 „	.829	29.033	79.2	74.7	4.5	72.8	.82	79.5	79.2	„	0.8					
8 „	.849	.064	78.8	74.3	4.5	72.4	.82	79.0	79.2	NW b N	0.5					
9 „	.866	.097	77.6	73.5	4.1	71.7	.83	77.7	79.0	„	0.1					
10 „	.870	.175	76.0	71.0	5.0	68.6	.79	76.2	78.7	„	0.0					
11 „	.856	.212	74.4	69.0	5.4	66.3	.77	74.7	78.5	„	0.0					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ∿ cirro-cumuli; ⌒ cumuli; ⌣ cirro-strati; ⌒ cumulo-strati; and ≋ nimbi.	
0	L	Mist around hor.	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	Clear.	
0	N	"	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	Clear; dew falling.	
0	L	Clear, with dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°5 and 81°0. 20th February was the twelfth cloudless day from the beginning of the year.
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	Mist in hor.	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	Clear.	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	Clear; dew falling copiously.	
0	L	Clear, with dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°6 and 81°0. Direction of Wind was abnormal; light breezes in the afternoon.
0	C	" "	
0	C	" "	
0	C	" "	
2	C	Fleecy clouds scattered about E hor., moving W; dew falling.	
3	N	≀ and patches of fleecy clouds scattered in E hem., moving N; dew falling.	
4	N	Light ∿ scattered about, moving W; dew falling.	
4	N	Light ∿ scattered about, moving W.	
8	N	Overcast with light ∿, whose motion was not apparent.	
8	L	" " " " " "	
2	L	Light ∿ scattered here and there.	
0	L	Mist in hor., otherwise clear.	
0	L	Mist in hor.	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	C	"	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-Point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Feb. 23rd-Midnight	29.828	29.046	78°1	74°0	4°1	72°2	0.83	78°0	78°5	NNW	0.2					
1 a. m.	.813	.053	77.4	73.2	4.2	71.4	.82	77.2	78.5	„	0.3					
2 „	.795	.034	76.6	73.0	3.6	71.4	.85	76.4	78.4	„	0.5					
3 „	.785	.052	75.8	72.0	3.8	70.2	.84	75.8	78.3	„	0.2					
4 „	.781	.175	73.6	67.6	6.0	64.4	.74	73.7	78.0	„	0.1					
5 „	.794	.317	71.6	62.6	9.0	57.2	.62	72.2	77.5	„	0.0					
6 „	.820	.212	72.2	67.2	5.0	64.5	.78	72.2	77.2	„	0.0					
7 „	.843	.282	70.4	64.4	6.0	62.1	.73	72.0	76.8	„	0.0					
8 „	.871	.242	75.2	68.8	6.4	65.5	.73	76.0	77.0	„	0.0					
9 „	.891	.221	79.6	71.4	8.2	67.5	.68	79.2	77.7	„	0.0					
10 „	.896	.247	81.5	71.4	10.1	66.5	.62	80.8	78.0	„	0.0		+	1		Above 10m.
11 „	.877	.189	82.6	72.8	9.8	68.3	.63	81.8	78.2	„	0.2	None.			None.	
Noon.	.844	.033	84.6	76.6	8.0	73.4	.70	83.8	78.6	„	0.3					
1 p. m.	.800	28.990	85.2	76.7	8.5	73.3	.68	84.3	79.0	NW	0.3					
2 „	.770	.961	86.2	77.0	9.2	73.3	.67	85.1	79.3	„	0.6					
3 „	.758	.988	87.6	76.4	11.2	71.8	.61	86.5	79.6	„	0.8					
4 „	.743	.976	87.5	76.3	11.2	71.6	.61	86.4	80.0	„	1.0					
5 „	.752	.993	85.0	75.4	9.6	71.3	.65	84.2	79.8	„	0.5					
6 „	.760	29.012	81.2	74.0	7.2	70.9	.72	81.0	79.5	„	0.4					
7 „	.773	.074	79.6	72.2	7.4	68.8	.71	80.0	79.2	„	0.7					
8 „	.799	.038	79.3	73.8	5.5	71.4	.78	79.6	79.2	NNW	0.3					
9 „	.828	.134	77.8	71.5	6.3	68.6	.74	78.2	79.0	„	0.0					
10 „	.831	.251	77.2	68.0	9.2	63.1	.63	78.0	78.9	„	0.0					
11 „	.830	.148	77.2	71.0	6.2	68.0	.75	77.2	78.6	„	0.0					
Feb. 24th-Midnight	.818	.217	75.3	68.0	7.3	64.2	.70	75.6	78.5	NNW	0.0					
1 a. m.	.811	.080	76.0	72.0	4.0	70.2	.83	76.0	78.3	„	0.0					
2 „	.801	.055	74.0	71.8	2.2	70.8	.90	74.8	78.1	„	0.1		+	3		0.07
3 „	.796	.147	73.6	68.9	4.7	66.5	.80	74.4	78.0	„	0.1					
4 „	.795	.074	72.0	70.5	1.5	69.8	.93	74.0	77.7	„	0.1					
5 „	.802	.245	72.2	65.6	6.6	61.9	.71	73.0	77.5	„	0.0					
6 „	.829	.185	72.6	68.4	4.2	66.3	.82	72.8	77.2	„	0.0		+	2		0.08
7 „	.872	.262	72.0	67.2	4.8	64.6	.79	73.0	77.0	„	0.0		+	10	10	0.04
8 „	.904	.254	76.9	70.0	6.9	66.6	.72	77.2	77.3	„	0.0		+	1		Above 10m.
9 „	.926	.282	79.3	70.6	8.7	66.3	.66	79.2	77.7	„	0.0		+	1		Above 10m.
10 „	.933	.213	82.7	73.7	9.0	69.7	.66	82.4	78.1	„	0.0		+	2		Above 10m.
11 „	.916	.157	87.2	76.0	11.2	71.3	.61	86.6	78.8	„	0.1	None.	+	15	15	0.20
Noon.	.885	.116	88.0	76.5	11.5	71.7	.60	86.6	78.7	„	0.2		+	1		Above 10m.
1 p. m.	.849	28.923	88.0	80.3	7.7	77.5	.72	86.4	79.5	„	0.3		+	3		1.50
2 „	.815	.856	87.7	81.0	6.7	78.6	.75	86.2	79.8	WNW	0.4					
3 „	.795	.916	87.3	79.0	8.3	75.9	.70	86.5	80.0	NW b N	0.3					
4 „	.796	29.000	87.4	77.0	10.4	72.8	.63	86.5	80.2	WNW	0.2					
5 „	.811	.028	86.4	76.4	10.0	72.3	.64	85.6	80.4	NW b N	0.1					
6 „	.822	.061	82.8	74.8	8.0	71.4	.70	82.2	80.1	„	0.0					
7 „	.843	.023	80.2	75.6	4.6	73.7	.81	80.2	80.0	„	0.0					
8 „	.870	.098	79.0	74.0	5.0	71.8	.80	79.2	79.7	„	0.0					
9 „	.888	.101	77.6	74.0	3.6	72.5	.85	78.2	79.5	„	0.0					
10 „	.895	.109	78.1	74.1	4.0	72.4	.83	79.0	79.4	„	0.0					
11 „	.891	.048	78.8	75.8	3.0	74.6	.88	79.0	79.5	S	0.0					
Feb. 25th-Midnight	.873	28.983	78.8	77.0	1.8	76.3	.92	79.2	79.5	S	0.1		+	2		0.01
1 a. m.	.859	.991	78.0	76.2	1.8	75.5	.92	78.9	79.5	SSE	0.1					
2 „	.838	.960	77.4	76.3	1.1	75.9	.95	78.2	79.3	„	0.1					
3 „	.831	.960	77.0	76.0	1.0	75.6	.96	77.7	79.2	„	0.1					
4 „	.840	29.042	75.0	74.0	1.0	73.6	.96	76.0	79.0	„	0.0					
5 „	.851	.015	75.2	74.6	0.6	74.3	.97	76.0	78.7	„	0.0					
6 „	.869	.109	73.4	72.0	1.4	71.4	.94	74.6	78.5	„	0.1	None.			None.	
7 „	.895	.138	73.6	72.0	1.6	71.2	.93	74.8	78.2	ESE	0.1					
8 „	.909	.180	76.2	72.0	4.2	70.0	.82	76.8	78.3	„	0.1					
9 „	.923	.194	78.2	72.6	5.6	70.1	.77	78.2	78.6	NE b N	0.1					
10 „	.932	.115	81.2	75.8	5.4	73.6	.79	81.4	78.9	NNE	0.1					
11 „	.916	.184	84.8	74.6	10.2	70.2	.63	82.7	79.4	NE b N	0.0					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Nota.—In recording these Observations, the Symbols used to denote the clouds are: ∿ cirri; ∿∿ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩∩ cumulo-strati; and ∿⌣ nimbi.	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°6 and 81°0. Light breezes blew in the afternoon. 23rd February was the thirteenth cloudless day from the beginning of the year.
0	L	"	
0	L	"	
0	L	"	
0	N	"	
0	N	"	
0	N	Haze around hor.	
0	N	Mist around hor.	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	"	
0	N	"	
0	N	Haze in hor.	
0	L	Clear.	
0	L	"	
0	L	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°6 and 81°0. Temperature of Dew-Point at 2 P. M. was 78°6, the highest during the month. 24th February was the fourteenth cloudless day from the beginning of the year.
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	Mist in hor.	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	Clear.	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear; dew falling copiously.	Mean daily Temperature of Ground 20 and 60 inches below it surface 77°6 and 81°0. Directions of Wind was abnormal.
0	C	" " "	
0	C	" " "	
0	C	" " "	
0	C	A few patches of fleecy clouds in E; dew falling.	
2	N	Patches of fleecy clouds scattered about, moving W; dew falling copiously.	
1	N	A bank of clouds about hor. from NNW to S; mist around hor.	
0	N	Mist around hor.	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Feb. 25th–Noon.	29.883	29.028	85°6	78°0	7°6	75°0	0.72	84°4	79°7	N	0.1					
1 p. m.	.847	28.964	86.0	79.0	7.0	76.4	.74	85.3	80.0	N b W	0.2					
2 „	.817	.922	86.9	79.3	7.6	76.5	.72	86.0	80.2	NW b N	0.2					
3 „	.797	.929	87.5	78.8	8.7	75.5	.69	86.8	80.5	NW b W	0.2					
4 „	.798	.912	87.4	79.2	8.2	76.1	.70	87.1	80.6	NNW	0.3		+	2		0.20
5 „	.799	.949	86.8	78.2	8.6	74.8	.69	86.4	80.7	„	0.3		+	2		0.07
6 „	.803	29.081	82.0	73.6	8.4	69.8	.67	82.2	80.5	„	0·4	None.			None.	
7 „	.815	.046	81.0	74.5	6.5	71.7	.74	81.2	80.3	„	0.6					
8 „	.840	.115	80.6	73.2	7.4	69.9	.71	80.8	80.2	„	0.4					
9 „	.857	.258	79.7	69.4	10.3	64.1	.60	80.2	80.0	N b W	0.2					
10 „	.859	.229	79.4	70.2	9.2	65.6	.64	79.9	79.9	„	0.4					
11 „	.862	.273	80.0	69.2	10.8	63.5	.59	79.9	79.9	„	0.2		+	1		Above 10m.
Feb. 26th–Midnight	.846	.308	78.0	67.6	10.4	60.3	.59	78.2	79.6	N	0.1					
1 a. m.	.839	.255	77.1	67.5	9.6	63.3	.62	77.7	79.3	„	0.0					
2 „	.818	.197	76.2	68.9	7.3	65.2	.70	76.6	79.1	„	0.0		+	2		Above 10m.
3 „	.813	.213	75.4	68.0	7.4	64.1	.69	76.2	78.7	„	0.0		+	2		Above 10m.
4 „	.809	.153	76.4	70.0	6.4	66.8	.73	76.3	78.8	„	0.0		+	3		5.00
5 „	.814	.201	75.4	68.4	7.0	64.8	.71	75.4	78.5	„	0.0		+	2		Above 10m.
6 „	.833	.222	74.9	68.2	6.7	64.7	.72	75·2	78.2	„	0.1					
7 „	.865	.239	75.4	68.8	6.6	65.4	.72	76.0	78.0	„	0.0		+	2		Above 10m.
8 „	.887	.305	78.2	68.4	9.8	63.2	.62	78.3	78·3	„	0.0		+	1		Above 10m.
9 „	.918	.347	81.0	69.0	12.0	62.6	.55	80.4	78.6	NE	0.0					
10 „	.918	.305	83.4	71.0	12.4	64.8	.55	83.0	79.0	NE b N	0.1		+	2		Above 10m.
11 „	.896	.201	86.0	74.0	12.0	68.6	.57	84.6	79.4	NE	0.1		+	2		Above 10m.
Noon.	.867	.071	87.4	77.0	10.4	72.8	.63	86.2	79.7	NNE	0.2		+	14		0.12
1 p. m.	.822	.045	86.9	76.4	10.5	72.0	.63	86.1	80.0	NW	0.2	None.	+	1	12	0.20
2 „	.786	28.898	88.8	79.6	9.2	76.2	.67	87.6	80.4	NW b W	0.2		+	2		4.30
3 „	.766	.892	87.7	79.0	8.7	75.7	.69	86.4	80.5	„	0.3					
4 „	.763	.880	86.9	79.0	7.9	76.0	.71	86.0	80.7	„	0.2					
5 „	.760	.964	85.2	76·4	8.8	72.8	.68	84.8	80.7	NW	0.5					
6 „	.763	29.009	82.0	74.2	7.8	71.1	.70	82.2	80.5	„	0.7					
7 „	.775	28.992	80.8	74.8	6.0	72.3	.76	81.0	80.3	„	1.0					
8 „	.792	29.055	80.1	73.4	6.7	70.4	.73	80.3	80.2	„	1.5					
9 „	.818	.129	79.8	72.0	7.8	68.3	.69	79.8	80.1	NNW	0.1					
10 „	.824	.106	77.8	72.2	5.6	69.6	.77	78.2	79.9	„	0.0		+	2		0.25
11 „	.818	.220	75.0	67.8	7.2	64.0	.70	76.0	79.5	„	0.0					
Feb. 27th–Midnight	.802	.217	73.7	67.0	6.7	63.3	.72	75.2	79.1	NNW	0.0		+	4		0.12
1 a. m.	.787	.044	74.9	72.0	2.9	70.7	.87	75.7	78.9	„	0.0		+	1		Above 10m.
2 „	.765	.110	74.6	69.4	5.2	66.8	.78	75.5	78.7	NW b N	0.0					
3 „	.763	.218	73.3	65.6	7.7	61.2	.67	74.0	78.5	NNW	0.0					
4 „	.765	.289	72.0	62.9	9.1	57.2	.61	72.7	78.1	„	0.0					
5 „	.772	.234	71.6	64.8	6.8	60.8	.71	72.2	77.8	„	0.0					
6 „	.788	.266	71.0	63.8	7.2	59.9	.69	72.2	77.5	„	0.0					
7 „	.825	.253	71.4	65.8	5.6	62.7	.75	72.8	77.2	„	0.0					
8 „	.844	.246	77.0	67.8	9.2	64.0	.63	77.6	77.5	„	0.0					
9 „	.864	.279	80.2	69.2	11.0	63.4	.58	80.0	78.0	„	0.0		+	2		Above 10m.
10 „	.869	.252	83.0	71.0	12.0	65.0	.56	82.4	78.4	„	0.1		+	2		Above 10m.
11 „	.853	.195	86.6	73.2	13.4	66.9	.54	85.4	79.0	„	0.0		+	2		Above 10m.
Noon.	.821	.062	87.2	76.0	11.2	71.3	.64	85.8	79.4	„	0.1	None.	+	9	8	4.00
1 p. m.	.781	28.997	87.6	76.8	10.8	72.4	.62	86.4	79.6	„	0.2		+	2		3.40
2 „	.744	.949	88.2	77.2	11.0	72.8	.61	87.4	80.0	NW b N	0.3					
3 „	.723	.945	89.0	77.0	12.0	72.1	.59	88.2	80.5	„	0.3		+	2		Above 10m.
4 „	.724	.858	89.2	79.2	10.0	75.4	.65	88.2	80.8	NNW	0.5		+	2		4.00
5 „	.721	.956	86.6	76.0	10.6	71.4	.62	86.1	80.8	„	0.5		+	2		Above 10m.
6 „	.723	29.071	83.2	72.0	11.2	66.6	.59	83.2	80.5	„	0.3		+	1		Above 10m.
7 „	.741	.078	82.2	72.0	10.2	67.2	.62	82.3	80.4	„	0.4		+	1		Above 10m.
8 „	.761	.041	81.0	73.2	7.8	69.7	.70	81.4	80.2	„	0.2		+	6	6	0.27
9 „	.722	.011	80.0	74.0	6.0	71.4	.76	80.2	80.1	N b W	0.4		+	2		1.30
10 „	.785	.179	77.8	69.0	8.8	64.4	.65	78.2	79.9	„	0.2					
11 „	.779	.212	76.6	67.4	9.2	62.4	.63	77.6	79.5	„	0.1		+	1		Above 10m.

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ⌒i cirri; ⌒⌒i cirro-cumuli; ⌒i cumuli; ⌣i cirro-strati; ⌒⌣i cumulo-strati; and ⌒⌣i nimbi.	
0	L	Mist around hor.	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	Clear.	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°6 and 81°0. Light breezes of Wind blew after sunset.
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	Mist around hor.	26th February was the sixteenth cloudless day from the beginning of the year.
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	Clear.	
0	N	"	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°6 and 81°0. Height of Standard Barometer was 29.721 at 5 P. M., which was the lowest reading during the month.
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	"	
0	N	Mist in hor.	27th February was the seventeenth cloudless day from the beginning of the year.
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	Clear.	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	"	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Feb. 28th-Midnight	29.768	29.223	75°0	66°2	8°8	61°2	0.64	76°0	79°1	N b W	0.0		+	1		Above 10m.
1 a. m.	.761	.219	74.7	66.0	8.7	61.0	.64	75.7	79.0	„	0.0					
2 „	.750	.168	73.4	66.8	6.6	63.2	.72	74.9	78.7	„	0.0		+	2		
3 „	.742	.063	73.6	69.8	3.8	67.9	.83	74.9	78.4	„	0.1		+	11	10	
4 „	.745	.169	72.8	66.4	6.4	62.8	.72	74.0	78.2	„	0.0		+	2		
5 „	.762	.174	74.0	67.2	6.8	63.5	.71	74.6	78.0	„	0.1					
6 „	.786	.193	73.6	67.2	6.4	63.8	.73	74.0	77.9	„	0.0			1		
7 „	.818	.246	72.6	66.2	6.4	62.7	.73	74.0	77.5	„	0.0			1		
8 „	.844	.217	76.8	69.3	7.5	65.4	.70	77.2	77.7	„	0.0			1		
9 „	.851	.287	80.4	68.6	11.8	62.2	.56	80.0	78.2	N	0.0					
10 „	.872	.246	82.8	71.2	11.6	65.4	.57	82.2	78.6	„	0.1			2		
11 „	.858	.306	85.7	70.0	15.7	61.6	.46	84.8	79.0	„	0.0					
Noon.	.824	.174	90.1	74.0	16.1	66.6	.47	88.0	79.7	„	0.0	None.				
1 p. m.	.784	28.975	89.4	77.9	11.5	73.3	.60	87.7	80.0	„	0.1		+	2		
2 „	.750	.884	89.2	79.2	10.0	75.8	.65	88.2	80.3	NW b N	0.2		+	4		
3 „	.732	.885	90.2	79.0	11.2	74.7	.62	89.2	80.8	NW	0.2					
4 „	.725	.907	89.0	78.0	11.0	73.4	.62	88.0	81.0	NW b W	0.2					
5 „	.738	.816	87.2	80.0	7.2	77.4	.74	86.3	81.0	NNW	0.1		+	12	12	
6 „	.748	.885	82.8	77.4	5.4	75.3	.79	83.0	80.7	„	0.1			8	8	
7 „	.763	.959	80.6	75.3	5.3	73.1	.79	81.2	80.5	„	0.1			2		
8 „	.787	.947	79.8	76.0	3.8	74.5	.85	80.4	80.4	„	0.1			2		
9 „	.817	29.025	77.8	74.2	3.6	72.7	.85	78.6	80.1	„	0.0			5		
10 „	.821	.060	76.6	73.0	3.6	71.4	.85	78.0	79.8	„	0.0			6		
11 „	.816	.031	77.2	73.8	3.4	72.4	.86	78.2	79.8	„	0.0			2		
Mar. 2nd-Midnight	.809	.013	76.8	74.0	2.8	72.8	.88	77.2	79.5	NNW	0.0					
1 a. m.	.794	.003	75.6	73.5	2.1	72.6	.91	76.2	79.4	„	0.0					
2 „	.787	.036	74.3	72.0	2.3	71.0	.90	75.0	79.1	„	0.0					
3 „	.778	28.953	74.2	74.0	0.2	73.9	.99	75.8	78.9	„	0.1		+	10	10	0.32
4 „	.789	29.003	76.0	73.5	2.5	72.4	.90	76.3	79.0	„	0.0		+	6	4	1.30
5 „	.802	.041	74.6	72.4	2.2	71.4	.90	75.2	78.8	„	0.0		+	4		0.19
6 „	.823	.073	73.0	71.6	1.4	71.0	.94	74.3	78.5	„	0.0		+	8	6	0.16
7 „	.854	.068	74.4	73.0	1.4	72.4	.94	75.2	78.3	„	0.0		+	14	14	0.10
8 „	.873	.151	76.8	72.0	4.8	69.8	.80	77.4	78.5	„	0.1		+	13	13	0.08
9 „	.891	.220	78.2	71.0	7.2	67.5	.71	78.4	78.7	N	0.1		+	12	10	0.30
10 „	.895	.258	80.6	70.8	9.8	65.9	.63	80.2	78.9	„	0.0		+	2		Above 10m.
11 „	.883	.173	83.7	73.7	10.0	69.3	.63	82.6	79.2	„	0.1	None.	+	10	9	0.30
Noon.	.853	.060	84.8	76.2	8.6	72.7	.68	84.2	79.5	„	0.3		+	4		1.30
1 p. m.	.822	.022	86.6	76.9	9.7	73.0	.65	86.0	79.9	NNW	0.2		+	5	3	1.55
2 „	.784	28.915	88.2	79.0	9.2	75.5	.67	87.8	80.4	NW	0.2		+	10	8	1.20
3 „	.764	.923	89.2	78.5	10.7	74.3	.63	88.2	80.8	„	0.2		+	3		4.25
4 „	.758	.923	88.2	78.2	10.0	74.3	.65	87.5	81.0	„	0.2					
5 „	.771	.908	87.0	78.8	9.2	75.3	.67	86.4	81.0	NNW	0.1		+	3		Above 10m.
6 „	.789	.953	83.0	76.8	6.2	74.3	.76	83.0	80.8	NW	0.2		+	6	6	0.08
7 „	.815	29.001	81.4	75.8	5.6	73.5	.78	81.6	80.6	„	0.1		+	10	10	0.04
8 „	.845	.078	79.8	74.1	5.7	71.6	.77	80.2	80.4	„	0.1		+	2		Above 10m.
9 „	.858	.130	77.3	72.3	5.0	70.0	.79	78.2	80.0	„	0.0		+	2		Above 10m.
10 „	.845	.118	77.6	72.6	5.0	70.4	.79	78.4	79.8	„	0.0		+	1		Above 10m.
11 „	.846	.195	76.8	70.0	6.8	66.6	.72	77.6	79.8	„	0.0		+	1		Above 10m.
Mar. 3rd-Midnight	.847	.020	76.8	74.8	2.0	74.0	.91	77.4	80.2	NW	0.0		+	4		0.16
1 a. m.	.838	28.978	76.6	75.6	1.0	75.2	.96	77.2	80.0	„	0.0		+	Out of Sc.	20	0.10
2 „	.818	.987	77.8	75.2	2.6	74.1	.89	78.4	80.0	„	0.0		+	13	12	0.08
3 „	.812	29.047	76.3	73.0	3.3	71.6	.86	76.6	79.8	„	0.0		+	4		2.00
4 „	.808	.019	75.4	73.4	2.0	72.6	.91	76.2	79.5	„	0.0		+	9	8	0.15
5 „	.818	.022	76.2	73.8	2.4	72.8	.90	76.6	79.5	„	0.0		+	13	12	0.23
6 „	.840	.066	74.4	72.7	1.7	71.9	.92	75.1	79.2	„	0.0		+	18	16	0.12
7 „	.871	.125	74.6	72.0	2.6	70.8	.89	75.6	78.9	NNE	0.0	None.	+	8	5	1.00
8 „	.900	.161	77.6	72.7	4.9	70.5	.84	78.0	79.0	„	0.1		+	10	10	1.30
9 „	.915	.129	81.2	75.6	6.2	72.4	.76	80.8	79.3	„	0.1		+	2		2.05
10 „	.925	.090	83.1	76.8	6.3	74.3	.76	83.0	79.7	„	0.2		+	1		Above 10m.
11 „	.907	.044	84.2	77.8	6.4	75.3	.76	84.0	80.0	ESE	0.1		+	1		Above 10m.

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∖ cirri; ∿ cirro-cumuli; ⌒ cumuli; ⌣ cirro-strati; ⌒ cumulo-strati; and ∿ nimbi.	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°6 and 81°0.
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	N	"	28th February was the eighteenth cloudless day from the beginning of the year.
0	N	Mist in hor.	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	Clear.	
0	N	"	
0	N	"	
0	N	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°6 and 81°0. On the 1st at 3 P. M. Temperature of Free Air was 89°2, being 3°0 higher than the Normal Mean.
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	Mist in hor.	1st March was the nineteenth cloudless day from the beginning of the year.
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	Clear.	
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	N	Clear, with dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°1 and 81°0. On the 3rd at 2 P. M. Temperature of Evaporation was about 10°0 higher than the Normal Mean.
0	L	" " "	
0	L	" " "	
0	L	" " "	
0	L	" " "	
0	C	" " "	
0	C	A few streaks of ∖ about E and NE hor.; mist around hor.	3rd March was almost a cloudless day; the extent of cloud was not above $\frac{1}{16}$ of the whole sky.
0	C	Mist in hor.	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	" "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Mar. 3rd-Noon.	29.879	28.984	85°8	79°0	6°8	76°5	0.75	85°3	80°3	S	0.0		+	8	8	0.11
1 p. m.	.853	.938	87.1	79.8	7.3	77.2	.73	86.2	80.7	SW	0.2		+	4		0.15
2 „	.822	.879	87.6	80.6	7.0	78.2	.74	86.8	81.0	„	0.1		+	7	6	0.30
3 „	.806	.870	88.2	80.6	7.6	77.9	.72	87.2	81.2	WSW	0.1					
4 „	.801	.868	87.8	80.4	7.4	77.7	.73	87.4	81.4	SW	0.1		+	2		0.40
5 „	.795	.879	86.6	79.7	6.9	77.2	.74	86.0	81.5	„	0.1		+	4		2.20
6 „	.808	.924	83.0	78.0	5.0	76.1	.80	82.8	81.3	„	0.0	None.	+	2		1.10
7 „	.827	.996	80.6	76.0	4.6	74.1	.81	81.0	81.0	„	0.0					
8 „	.856	29.015	79.7	76.0	3.7	74.5	.85	80.2	80.7	„	0.0					
9 „	.879	.031	79.8	76.2	3.6	74.8	.86	80.2	80.5	S	0.0		+	2		1.15
10 „	.881	.076	78.8	74.8	4.0	73.2	.84	79.2	80.5	SW b W	0.1		+	1		Above 10m.
11 „	.875	.066	78.4	74.8	3.6	73.3	.85	78.8	80.3	W b N	0.1					
Mar. 4th-Midnight	.866	.095	76.4	73.2	3.2	71.8	.86	76.8	80.0	W b N	0.0	•				
1 a. m.	.844	.086	75.2	72.5	2.7	71.3	.88	76.2	79.8	„	0.0					
2 „	.831	.079	74.7	72.2	2.5	71.0	.89	75.8	79.6	„	0.0					
3 „	.831	.072	74.8	72.4	2.4	71.3	.90	75.6	79.4	„	0.0					
4 „	.825	.148	73.8	69.8	4.0	67.8	.83	75.2	79.2	NW b W	0.0					
5 „	.840	.030	75.5	74.0	1.5	73.3	.94	76.1	79.2	NW b N	0.1					
6 „	.863	.065	75.0	73.8	1.2	72.9	.95	75.5	78.9	NE b E	0.1					
7 „	.888	.076	75.0	73.9	1.1	73.4	.95	75.8	78.8	ESE	0.1		+	1		3.00
8 „	.911	.060	77.8	75.7	2.1	74.9	.91	78.2	79.0	„	0.0					
9 „	.921	.076	79.4	76.0	3.4	74.7	.86	79.4	79.0	„	0.0					
10 „	.919	.092	81.0	76.0	5.0	74.0	.80	80.6	79.4	„	0.0		+	7	6	0.10
11 „	.898	.022	83.0	77.8	5.2	75.8	.80	82.8	79.5	„	0.0					
Noon.	.864	.090	84.0	75.5	8.5	71.9	.68	83.4	79.8	WNW	0.2	None.	+	4		0.31
1 p. m.	.835	.095	85.4	75.0	10.4	70.5	.62	84.0	80.1	„	0.4		+	1		Above 10m.
2 „	.798	28.987	86.0	77.0	9.0	73.5	.67	85.0	80.4	NW b W	0.0					
3 „	.771	.948	86.4	77.4	9.0	73.8	.67	85.2	80.6	„	0.6					
4 „	.771	.940	86.6	78.0	8.6	74.6	.69	85.8	80.9	NW	0.4					
5 „	.777	.923	85.0	77.8	7.2	75.0	.73	84.3	80.9	„	0.6					
6 „	.786	.975	82.1	75.9	6.2	73.4	.76	82.1	80.7	„	0.3					
7 „	.805	29.042	81.6	74.5	7.1	71.5	.73	81.8	80.5	„	0.0					
8 „	.833	.061	81.8	74.8	7.0	71.8	.73	82.0	80.5	NNW	0.2					
9 „	.842	.222	79.0	69.8	9.2	65.1	.64	79.4	80.5	„	0.0					
10 „	.851	.079	79.0	74.0	5.0	71.8	.80	79.4	80.0	„	0.1		+	4		0.18
11 „	.847	.028	79.6	75.4	4.2	73.7	.84	79.6	80.0	„	0.2					
Mar. 5th-Midnight	.839	.043	78.6	74.5	4.1	72.8	.83	78.8	80.0	NNW	0.3					
1 a. m.	.830	.035	77.6	74.2	3.4	72.8	.86	78.0	80.0	„	0.1					
2 „	.820	.029	76.0	73.6	2.4	72.6	.90	76.6	79.7	„	0.0					
3 „	.817	.036	74.8	73.0	1.8	72.2	.92	75.7	79.3	„	0.0					
4 „	.817	.037	76.2	73.4	2.8	72.2	.88	77.0	79.3	„	0.1					
5 „	.833	.202	74.0	68.5	5.5	65.6	.76	74.5	79.1	„	0.1					
6 „	.851	.088	74.4	72.4	2.0	71.5	.91	74.9	78.9	„	0.0					
7 „	.875	.127	74.8	72.1	2.7	70.9	.88	75.5	78.7	„	0.0		•			
8 „	.896	.163	77.8	72.7	5.1	70.2	.79	78.2	78.9	N b W	0.1					
9 „	.921	.195	79.8	73.0	6.8	69.9	.73	79.6	79.0	NW	0.0		+	4		0.32
10 „	.920	.133	81.8	75.2	6.6	72.5	.74	81.0	79.2	„	0.0					
11 „	.912	.025	84.2	78.4	5.8	76.2	.78	83.2	79.5	„	0.3					
Noon.	.890	.024	85.0	78.1	6.9	75.4	.74	84.2	79.9	NW	0.3	None.				
1 p. m.	.856	28.990	85.4	78.2	7.2	75.4	.73	84.2	80.2	WNW	0.2					
2 „	.830	.977	85.8	78.0	7.8	75.0	.71	84.7	80.4	W b N	0.3					
3 „	.815	.941	85.4	78.4	7.0	75.7	.74	84.4	80.5	WNW	0.5					
4 „	.808	.922	85.1	78.6	6.5	76.1	.75	84.2	80.7	NW b W	0.6					
5 „	.807	.957	83.6	77.3	6.3	74.8	.76	83.1	80.7	„	0.4					
6 „	.818	.978	81.2	76.4	4.8	74.5	.81	81.1	80.5	„	0.4					
7 „	.833	29.008	80.4	75.8	4.6	73.9	.81	80.6	80.4	„	1.2					
8 „	.852	.034	80.0	75.5	4.5	73.6	.82	80.2	80.3	„	0.2					
9 „	.867	.052	79.3	75.2	4.1	73.5	.83	79.6	80.2	NW	0.1					
10 „	.866	.043	77.8	75.0	2.8	73.8	.88	78.0	80.0	„	0.0		+	10	10	0.09
11 „	.860	.056	76.1	74.0	2.1	73.1	.91	76.3	79.7	„	0.0		+	6	6	0.16

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩⌣ cumulo-strati; and ≀≀≀ nimbi.	
0	N	Mist in hor.	
0	L	" "	
0	L	" "	
0	L	A few ≀ in NE and S; mist in hor.	
0	L	Mist in hor.	
0	C	" "	
0	C	" "	
0	C	Clear.	
0	C	"	
0	N	"	
0	N	"	
0	N	"	
0	N	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°5 and 81°0. On this day the Wind blew in a direct circular motion.
0	L	"	
0	L	Clear; dew falling.	
0	L	A few ≀ in E and SE about hor; dew falling.	
0	L	" " " " "	
0	C	Cloudless.	This was almost a cloudless day.
0	C	A few ≀ in E and SE scattered about hor.; mist in hor.	
0	C	A few patches of clouds in NE, otherwise clear; mist in hor.	
0	C	Mist around hor.	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	N	"	
0	N	"	
0	N	"	
0	N	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°6 and 81°0. 5th March almost a cloudless day.
0	L	"	
0	L	Clear, with dew falling.	
0	L	" " "	
0	L	A few ≀ above E and SE hor.	
0	C	Clear.	
0	C	Mist around.	
0	C	≀ in N scattered about hor.; mist in hor.	
0	C	Mist in hor.	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	Clear.	
0	C	"	
0	N	"	
0	N	"	
0	N	Clear, with dew falling.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharges
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Mar. 6th-Midnight	29.851	29.055	75°3	73°6	1°7	72°8	0.93	76°0	79°5	NW	0.0					
1 a. m.	.835	.054	74.8	73.0	1.8	72.2	.92	75.5	79.3	„	0.1					
2 „	.830	.048	74.1	72.8	1.3	72.2	.94	75.2	79.1	„	0.0					
3 „	.817	.035	74.7	73.0	1.7	72.2	.93	75.2	79.0	„	0.0					
4 „	.827	.108	73.8	71.0	2.8	69.7	.88	74.2	78.7	„	0.1					
5 „	.845	.170	73.4	69.6	3.8	67.7	.83	74.0	78.6	NW b N	0.1					
6 „	.858	.199	73.0	69.0	4.0	67.0	.82	73.8	78.4	„	0.0					
7 „	.886	.160	73.2	71.0	2.2	69.9	.90	74.6	78.1	„	0.0					
8 „	.906	.233	78.0	71.0	7.0	67.6	.72	78.1	78.5	„	0.0					
9 „	.922	.283	81.1	71.0	10.1	66.0	.62	80.2	78.7	„	0.0					
10 „	.927	.206	83.3	73.9	9.4	69.7	.65	82.2	79.0	„	0.0					
11 „	.908	.199	84.8	74.0	10.8	69.2	.61	83.4	79.3	„	0.1					
Noon.	.880	.158	85.6	74.6	11.0	69.8	.61	84.2	79.6	„	0.5	None.			None.	
1 p. m.	.860	.052	86.4	77.0	9.4	73.2	.66	85.2	79.9	W b N	0.4					
2 „	.836	.002	86.8	77.8	9.0	74.3	.67	85.7	80.2	„	0.4					
3 „	.820	28.940	87.2	79.0	8.2	75.9	.70	86.0	80.5	„	0.5		+	1		Above 10m.
4 „	.824	.965	86.0	78.2	7.8	75.2	.71	85.0	80.6	NW b W	0.3					
5 „	.830	.968	86.1	78.3	7.8	75.3	.71	84.3	80.8	„	0.2					
6 „	.839	29.022	82.3	76.1	6.2	73.6	.76	82.0	80.5	„	0.1					
7 „	.844	.048	80.6	75.1	5.5	72.8	.78	80.8	80.4	„	0.1					
8 „	.857	.059	80.1	75.0	5.1	72.9	.79	80.2	80.3	„	0.1		+	1		0.40
9 „	.863	.036	79.6	75.6	4.0	74.0	.84	79.8	80.1	„	0.1		+	2		0.36
10 „	.863	.051	78.8	75.0	3.8	73.4	.84	78.8	80.1	„	0.0					
11 „	.848	.061	78.5	74.5	4.0	72.5	.84	78.8	80.0	„	0.0					
Mar. 7th-Midnight	.847	.082	76.3	73.0	3.3	71.6	.86	76.6	79.7	NW b W	0.0		+	12	12	0.04
1 a. m.	.832	.060	75.6	73.0	2.6	71.8	.89	76.0	79.5	„	0.0		+ +	10	8	0.15
2 „	.825	.046	75.0	73.0	2.0	72.1	.91	75.4	79.2	„	0.0		+	2		0.10
3 „	.821	.042	74.3	72.8	1.5	72.1	.93	74.6	79.0	„	0.2					
4 „	.824	.048	74.0	72.6	1.4	72.0	.94	74.4	78.8	NW	0.1					
5 „	.843	.126	73.0	70.0	3.0	69.6	.87	72.9	78.5	NW b N	0.1					
6 „	.853	.262	71.4	66.8	4.6	64.3	.79	71.6	78.2	NNW	0.1		+	2		1.20
7 „	.878	.274	72.0	67.0	5.0	64.3	.78	72.8	77.9	„	0.1					
8 „	.901	.314	75.8	67.1	8.7	63.4	.65	76.6	78.0	„	0.0					
9 „	.915	.351	80.4	68.6	11.8	62.2	.56	80.2	78.3	„	0.1					
10 „	.914	.253	82.6	72.0	10.6	66.8	.61	82.0	78.7	„	0.1		+	2		Above 10m.
11 „	.894	.195	85.6	74.0	11.6	68.8	.59	84.6	79.1	„	0.1					
Noon.	.861	.104	87.0	75.9	11.1	71.2	.61	85.4	79.5	„	0.1	None.				
1 p. m.	.825	.026	87.8	77.2	10.6	73.0	.63	86.2	79.9	NW b W	0.6					
2 „	.799	.052	87.5	75.8	11.7	70.8	.59	86.2	79.9	WNW	0.5		+	1		Above 10m.
3 „	.781	.009	88.1	76.6	11.5	71.8	.60	87.4	80.5	NW b W	0.6		+	1		Above 10m.
4 „	.770	.057	87.8	75.0	12.8	69.4	.56	87.0	80.7	„	0.4		+ +	1		Above 10m.
5 „	.775	.111	87.4	73.6	13.8	67.2	.52	85.7	80.7	„	0.5		+ +	1		Above 10m.
6 „	.783	.125	82.6	72.0	10.6	66.9	.61	82.2	80.5	„	0.5		+ +	1		Above 10m.
7 „	.785	.126	81.2	71.6	9.6	67.0	.63	81.4	80.2	„	0.6		+ +	1		Above 10m.
8 „	.805	.135	80.6	71.7	8.9	67.5	.65	80.8	80.2	„	0.4		+ +	1		Above 10m.
9 „	.812	.141	80.1	71.6	8.5	67.5	.67	80.2	80.1	NW	0.1		+ +	1		Above 10m.
10 „	.829	.131	79.0	72.0	7.0	68.9	.72	78.7	80.0	NW b N	0.1		+ +	2		Above 10m.
11 „	.830	.146	77.0	71.0	6.0	68.1	.75	76.7	79.7	„	0.0		+	2		Above 10m.
Mar. 9th-Midnight	.803	28.972	77.8	75.2	2.6	74.1	.89	78.2	79.5	WNW	0.1					
1 a. m.	.790	.985	77.4	74.4	3.0	73.2	.87	78.0	79.4	„	0.1					
2 „	.784	.984	75.8	73.8	2.0	73.0	.91	75.8	79.1	„	0.0					
3 „	.777	.970	75.2	73.8	1.4	73.2	.94	75.4	79.0	„	0.0					
4 „	.787	.999	74.8	73.2	1.6	72.5	.93	75.2	78.8	„	0.0					
5 „	.806	29.018	73.6	72.9	0.7	72.5	.97	74.6	78.6	„	0.0	None.	None.	None.	None.	None.
6 „	.833	.060	73.2	72.3	0.9	71.9	.96	74.0	78.4	„	0.0					
7 „	.846	.041	75.0	73.7	1.3	73.2	.94	75.6	78.4	ENE	0.1					
8 „	.868	.048	77.4	74.8	2.6	73.7	.89	78.0	78.6	ESE	0.1					
9 „	.882	.070	80.2	75.4	4.8	73.4	.81	80.0	78.8	„	0.1					
10 „	.889	.093	81.0	75.2	5.8	72.8	.77	80.2	79.0	SSE	0.0					
11 „	.870	.036	81.8	76.4	5.4	74.3	.79	81.2	79.1	W b S	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ≀∩ cirro-strati; ∩∩ cumulo-strati; and ≀∩ nimbi.	
0	N	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°8 and 81°0. On the 6th Daily Range of Barometer was 0.110, the lowest during the month.
0	L	" " "	
0	L	" " "	
0	L	A few ≀ in SE above hor.	
0	L	A few streaks of ≀ in SE and E above hor.	
0	C	Clear.	
0	C	Mist in hor.	6th March was almost a cloudless day.
0	C	" "	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	N	"	
0	N	"	
0	N	"	
0	N	Clear, with dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°9 and 81°0. On the 7th at 6 A. M. Reading of Thermometer in the Air was the lowest during the month, being 3°2 lower than the Normal Mean; and at the same hour the Wet Bulb Thermometer was 66°8, being 4°0 lower than the Normal Mean.
0	L	" " "	
0	L	" " "	
0	L	" " "	
0	L	A few streaks of ≀ above SE hor.; dew falling.	
0	C	Clear, with dew falling.	
0	C	Mist in hor.	7th March was almost a clear day.
0	C	" "	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	N	≀ scattered along E hor.; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 79°0 and 81°0. On the 9th Wind blew in a direct circular motion from 6 A. M. to 11 A. M.
0	L	≀ scattered around E hor.	
0	L	Clear, except in hor.	
0	L	" " "	
0	L	" " "	
0	C	Dense ≀ scattered in W, NW, and SE hor.	
2	C	≀ scattered around hor.	
2	C	≀ and light fleecy clouds scattered about, moving W.	
2	C	≀ scattered about W hor. from S to NE; mist in hor.	
0	N	Mist in hor.	
0	N	" "	
0	N	" "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 0 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Mar. 9th-Noon.	29.841	28.019	83°6	76°6	7°0	73°8	0.73	82°6	79°5	WSW	0.2					
1 p. m.	.820	.004	84.8	76.8	8.0	73.4	.70	83.4	79.8	W	0.2					
2 „	.800	.961	86.0	77.7	8.3	74.4	.69	84.4	80.1	„	0.1					
3 „	.780	.927	86.6	78.2	8.4	75.0	.69	85.3	80.4	W b S	0.1					
4 „	.782	.910	86.4	78.6	7.8	75.6	.71	85.2	80.5	W b N	0.1					
5 „	.784	.912	86.0	78.5	7.5	75.6	.72	84.2	80.5	„	0.1					
6 „	.807	.905	81.4	78.0	3.4	76.7	.86	80.9	80.3	NW b W	0.1	None.	None.	None.	None.	None.
7 „	.817	.959	79.6	76.4	3.2	75.1	.87	79.8	80.1	„	0.0					
8 „	.837	.971	79.2	76.5	2.7	75.4	.89	79.5	80.0	„	0.1					
9 „	.849	.990	78.8	76.2	2.6	75.2	.89	79.2	79.8	„	0.1					
10 „	.856	29.011	78.0	75.6	2.4	74.7	.90	78.4	79.7	NW	0.0					
11 „	.848	28.992	77.0	75.6	1.4	75.1	.94	77.8	79.5	NNW	0.0					
Mar. 10th-Midnight	.832	29.004	76.0	74.6	1.4	74.0	.94	76.0	79.4	NNW	0.1					
1 a. m.	.810	.011	75.2	73.6	1.6	73.0	.92	75.6	79.3	„	0.0					
2 „	.805	28.953	75.2	75.0	0.2	74.9	.99	76.2	79.1	„	0.1					
3 „	.797	.974	75.8	74.4	1.4	73.8	.94	76.2	79.0	„	0.1					
4 „	.804	.966	74.8	74.5	0.3	74.4	.99	75.2	78.8	„	0.0					
5 „	.830	29.017	74.0	73.6	0.4	73.5	.98	74.3	78.7	„	0.0					
6 „	.849	.037	73.7	73.5	0.2	73.4	.99	74.1	78.5	„	0.0					
7 „	.860	.009	75.3	75.0	0.3	74.9	.99	76.2	78.5	ENE	0.0					
8 „	.884	.052	77.0	75.0	2.0	74.2	.91	77.3	78.5	E b N	0.0					
9 „	.903	.089	78.6	75.0	3.6	73.5	.85	78.8	78.7	ENE	0.1					
10 „	.897	.083	80.0	75.4	4.6	73.5	.81	79.8	78.8	„	0.1					
11 „	.889	.127	81.3	74.4	6.9	71.4	.73	80.8	79.0	„	0.0					
Noon.	.849	.014	83.8	77.0	6.8	74.3	.74	82.8	79.4	N b E	0.1	None.			None.	
1 p. m.	.818	.013	85.8	76.8	9.0	73.2	.67	84.2	79.9	WSW	0.2					
2 „	.802	.002	87.0	77.0	10.0	73.0	.64	85.4	80.2	W b S	0.3					
3 „	.790	.019	86.8	76.2	10.6	71.8	.62	85.4	80.3	W	0.3					
4 „	.792	.075	85.4	74.4	11.0	69.6	.60	83.9	80.2	WNW	0.4					
5 „	.795	.051	83.6	74.6	9.0	70.7	.66	82.6	80.1	NW b W	0.6					
6 „	.808	.080	79.6	73.0	6.6	70.0	.74	79.4	79.9	„	0.5					
7 „	.829	.068	77.8	70.6	7.2	67.1	.71	78.0	79.6	NW	0.3		+	1		Above 10m.
8 „	.852	.234	77.4	69.2	8.2	65.0	.67	77.7	79.4	„	0.2		+	1		Above 10m.
9 „	.869	.159	77.9	72.0	5.9	69.3	.76	78.0	79.3	„	0.4		+	1		Above 10m.
10 „	.871	.143	77.6	72.4	5.2	70.0	.79	77.6	70.2	„	0.1		+	2		Above 10m.
11 „	.862	.173	75.2	70.6	4.6	68.3	.80	75.4	78.9	NW b N	0.0		+	4		Above 10m.
Mar. 12th-Midnight	.835	.098	74.8	71.8	3.2	70.4	.87	75.8	78.7	NNW	0.1					
1 a. m.	.813	.047	76.2	73.0	3.2	71.6	.86	76.2	78.7	„	0.1					
2 „	.787	.071	74.5	71.1	3.4	69.5	.85	75.0	78.6	„	0.0					
3 „	.776	.026	74.9	72.2	2.7	71.0	.88	75.4	78.4	„	0.0					
4 „	.773	.053	75.0	71.4	3.6	69.7	.84	75.4	78.4	„	0.0					
5 „	.791	.098	73.0	70.0	3.0	68.5	.87	73.5	78.1	„	0.0					
6 „	.818	.068	74.0	71.9	2.1	71.0	.91	74.4	78.0	„	0.0					
7 „	.843	.096	74.5	72.0	2.5	70.8	.89	75.1	77.9	„	0.0					
8 „	.871	.123	77.2	72.8	4.4	70.9	.82	77.4	78.1	„	0.0					
9 „	.894	.126	79.4	74.0	5.4	71.7	.78	79.2	78.3	„	0.1					
10 „	.896	.073	81.4	76.0	5.4	73.6	.78	81.0	78.6	N	0.1					
11 „	.883	.070	83.0	76.2	6.3	73.5	.74	82.0	78 8	„	0.0					
Noon.	.860	28.975	84.4	78.4	6.0	76.1	.77	83.4	79.2	N b W	0.1	None.			None.	
1 p. m.	.848	29.009	86.0	77.7	8.3	74.4	.69	85.4	79.6	W	0.2					
2 „	.830	28.969	87.4	78.6	8.8	75.2	.68	85.9	80.0	„	0.2					
3 „	.819	.921	87.9	79.6	8.3	76.6	.70	86.8	80.4	„	0.1					
4 „	.821	.943	87.4	79.0	8.4	75.9	.70	86.0	80.5	W b S	0.1					
5 „	.828	.960	86.4	78.5	7.9	75.5	.80	85.4	80.6	WSW	0.1					
6 „	.839	.980	82.4	77.2	5.2	75.2	.85	82.3	80.4	„	0.0		+	1		4.00
7 „	.865	29.005	80.5	76.7	3.8	75.2	.87	80.5	80.2	SW	0.0		+	1		4.00
8 „	.885	.029	79.4	76.3	3.1	75.1	.88	79.8	80.0	„	0.0					
9 „	.900	.050	78.9	76.0	2.9	74.8	.91	79.2	79.8	„	0.1					
10 „	.901	.043	78.2	76.0	2.2	75.1	.91	78.4	79.8	SW b S	0.1					
11 „	.897	.045	78.0	75.8	2.2	74.9	.91	78.3	79.6	SSW	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀∩ cirro-cumuli; ∩ cumuli; ≀⌣ cirro-strati; ⌣ cumulo-strati; and ∩≀ nimbi.	
0	N	Mist in hor.	
0	L	" "	
0	L	" "	
0	L	A few patches of clouds in N and ESE a little above hor.	
0	L	" " " " " " "	
0	C	Clear.	
0	C	"	
1	C	Fleecy clouds scattered around hor.	
4	C	Fleecy clouds scattered about, moving E.	
3	N	Fleecy clouds scattered about, moving ESE.	
1	N	" " " " "	
0	N	Clear, except in hor.	
0	N	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 79°0 and 81°0.
0	L	" "	
2	L	Dense ≀ scattered around hor. moving SE; dew falling.	
1	L	≀ scattered about S, SW, W, and zth.; dew falling.	
0	L	Clear; dew falling.	
1	C	Dense ≀ scattered in E; dew falling.	
2	C	≀ scattered about hor. from NE to S, moving slowly S.	
4	C	≀ scattered about, moving slowly S; mist in hor.	
2	C	≀ scattered about, moving slowly SW; mist in hor.	
0	N	A few clouds about hor.; mist in hor.	
0	N	Mist in hor.	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	Clear.	
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	N	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 79°0 and 81°0. 12th March was almost a cloudless day.
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	C	"	
0	C	Mist in hor.	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	N	"	
0	N	"	
1	N	Patches of fleecy clouds scattered in E, moving N.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of deflection after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Mar.13th-Midnight	29.888	29.052	77°7	75°3	2°4	74°3	0.90	78°2	79°5	S b W	0.1					
1 a. m.	.880	.060	77.4	74.8	2.6	73.7	.89	78.0	79.6	SSW	0.0					
2 „	.871	.053	76.9	74.6	2.3	73.6	.90	77.7	79.4	„	0.0					
3 „	.876	.026	76.8	75.4	1.4	74.8	.94	77.5	79.3	„	0.2					
4 „	.883	.040	76.0	75.0	1.0	74.6	.96	77.0	79.1	E b S	0.2					
5 „	.903	.069	75.8	74.7	1.1	74.3	.95	76.7	79.0	„	0.2					
6 „	.933	.097	75.6	74.7	0.9	74.3	.96	76.3	78.9	E	0.1					
7 „	.949	.091	76.8	75.6	1.2	75.1	.95	78.0	78.9	„	0.0					
8 „	.971	.087	79.4	77.0	2.4	76.1	.90	79.7	79.2	E b S	0.1					
9 „	.985	.107	81.4	77.4	4.0	75.9	.84	81.2	79.4	ESE	0.1					
10 „	.989	.130	82.4	77.2	5.2	75.2	.80	81.8	79.5	„	0.1					
11 „	.974	.114	83.0	77.4	5.6	75.2	.78	82.4	79.7	SE b E.	0.1	None.	None.	None.	None.	None.
Noon.	.953	.097	83.8	77.5	6.3	75.1	.76	83.0	79.9	W b S	0.1					
1 p. m.	.929	.089	85.2	77.5	7.8	74.5	.71	84.6	80.2	W	0.2					
2 „	.909	.071	86.1	77.7	8.4	74.4	.69	85.0	80.5	„	0.1					
3 „	.895	.053	86.8	78.0	8.8	74.6	.68	85.4	80.7	„	0.1					
4 „	.889	.021	86.8	78.6	8.2	75.5	.70	85.6	80.8	W b S	0.2					
5 „	.881	.021	85.2	78.0	7.2	75.2	.73	85.3	81.0	„	0.1					
6 „	.895	.046	81.5	76.7	4.8	74.8	.81	82.0	80.6	W	0.0					
7 „	.929	.091	80.0	76.0	4.0	74.4	.84	80.2	80.4	„	0.1					
8 „	.949	.105	79.1	75.9	3.2	74.6	.87	79.4	80.2	W b N	0.1					
9 „	.952	.125	78.2	75.2	3.0	74.0	.87	78.6	80.0	„	0.0					
10 „	.952	.133	76.8	74.6	2.2	73.7	.91	77.8	79.8	„	0.0					
11 „	.949	.133	76.4	74.4	2.0	73.6	.91	77.4	79.6	„	0.0					
Mar.14th-Midnight	.940	.110	77.2	75.0	2.2	74.1	.91	78.0	79.5	W b N	0.0					
1 a. m.	.928	.114	76.6	74.4	2.2	73.5	.91	77.6	79.5	„	0.0					
2 „	.926	.127	77.2	74.2	3.0	73.0	.87	77.9	79.5	„	0.1					
3 „	.929	.126	76.2	74.0	2.2	73.1	.91	77.0	79.3	„	0.0					
4 „	.938	.099	76.4	75.0	1.4	74.4	.94	77.0	79.2	NNE	0.1					
5 „	.952	.147	76.0	74.0	2.0	73.2	.91	76.8	79.1	„	0.0					
6 „	.972	.170	75.2	73.7	1.5	73.0	.93	75.6	78.9	„	0.0					
7 „	.993	.184	75.6	74.0	1.6	73.3	.93	76.2	78.8	„	0.1					
8 „	30.012	.172	78.4	75.6	2.8	74.5	.88	78.8	79.0	NE b N	0.1					
9 „	.025	.191	80.4	76.0	4.4	74.3	.82	80.3	79.2	„	0.1					
10 „	.024	.166	82.5	77.2	5.3	75.1	.79	82.3	79.5	NE	0.1					
11 „	.002	.142	82.7	77.3	5.4	75.2	.79	82.5	79.6	NNW	0.1	None.			None.	
Noon.	29.980	.100	83.4	78.0	5.4	75.9	.79	83.2	79.8	NW	0.3					
1 p. m.	.938	.023	84.0	79.0	5.0	77.2	.81	83.6	80.1	WNW	0.3					
2 „	.914	.026	82.6	78.0	4.6	76.2	.82	82.5	80.1	„	0.5					
3 „	.894	.001	83.3	78.3	5.0	76.4	.80	82.9	80.1	NW b W	0.6					
4 „	.887	.003	83.0	78.0	5.0	76.1	.80	82.6	80.2	NW	0.6					
5 „	.881	.018	81.3	77.0	4.3	75.3	.83	81.0	80.0	„	0.3					
6 „	.879	.036	78.8	75.8	3.0	74.6	.88	78.8	79.7	„	0.5					
7 „	.896	.137	77.5	73.2	4.3	71.3	.82	78.0	79.6	„	0.5					
8 „	.915	.146	77.2	73.4	3.8	71.7	.84	77.8	79.5	„	0.4					
9 „	.926	.169	77.0	73.0	4.0	71.2	.83	77.4	79.3	NW b N	0.2		+	1		Above 10m.
10 „	.935	.188	76.6	72.6	4.0	70.8	.83	76.4	79.2	„	0.1		+	1		Above 10m.
11 „	.928	.179	75.0	72.2	2.8	70.9	.88	75.3	79.1	NNW	0.1					
Mar.16th-Midnight	.893	28.984	78.6	77.4	1.2	76.9	.95	78.8	79.5	NW	0.1		+	4		0.40
1 a. m.	.884	.994	77.8	76.7	1.1	76.3	.95	78.2	79.5	„	0.2					
2 „	.868	.986	77.4	76.4	1.0	76.0	.96	77.6	79.4	„	0.2					
3 „	.857	.959	77.1	76.7	0.4	76.6	.98	77.4	79.3	„	0.4					
4 „	.862	.989	76.8	76.0	0.8	75.7	.97	77.2	79.1	„	0.6					
5 „	.881	29.040	76.2	75.0	1.2	74.5	.95	76.6	79.1	„	0.6					
6 „	.894	.145	74.4	72.0	2.4	70.9	.90	74.8	78.8	„	0.1	None.			None.	
7 „	.915	.149	74.9	72.6	2.3	71.6	.90	75.8	78.6	„	0.0					
8 „	.934	.190	78.2	73.0	5.2	70.7	.79	78.5	78.8	„	0.0					
9 „	.948	.163	82.0	75.2	6.8	72.4	.74	82.2	79.1	„	0.2					
10 „	.945	.129	84.1	76.6	7.5	73.6	.72	83.8	79.5	„	0.1		+	1		Above 10m.
11 „	.928	.081	86.4	78.0	8.4	74.7	.69	86.0	79.9	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ⌣i cirri; ⌣i cirro-cumuli; ⌒i cumuli; ⌣i cirro-strati; ⌒i cumulo-strati; and ⌣i nimbi.	
1	N	Patches of fleecy clouds scattered about, moving N.	Mean daily Temperature of Ground 20 and 60 inches below its surface 79°3 and 81°2. On the 13th direction of Wind was abnormal.
2	L	" " " " moving NE.	
4	L	" " " " moving N.	
4	L	⌣i-like clouds scattered about, moving ENE.	
2	L	" " " " moving NE.	
3	C	" " " " moving NE.	
4	C	" " " " moving N.	
2	C	⌣i around hor. from S to NW; fleecy clouds scattered about; mist in hor.	
2	C	" " " " " " " "	
1	N	Fleecy clouds scattered about, moving N; mist in hor.	
1	N	" " " " " " "	
0	N	Mist around hor.	
0	N	" "	
0	L	A few patches of fleecy clouds in E above hor.; mist in hor.	
0	L	Mist in hor.	
0	L	" "	
0	L	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	"	
0	N	"	
2	N	Fleecy clouds scattered about, moving NE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 79°4 and 81°2. On the 14th at 9 A. M. Reading of Standard Barometer was the highest during the month, being 0.122 higher than the Normal Mean; on this also Range of Air Thermometer was 9°0 the least during the month.
6	L	" " " " moving N.	
6	L	" " " " moving E.	
5	L	" " " " moving SSE.	
2	L	Fleecy clouds scattered around hor., except in NW.	
1	L	Fleecy clouds about hor. from SE to W.	
1	L	Fleecy clouds scattered about hor. in SW, W, NW, and NE.	
1	L	" " " " " " mist in hor.	
1	L	Fleecy clouds scattered around hor., except in S; mist in hor.	
1	N	Fragments of fleecy clouds scattered about, moving NE.	
1	N	" " " " " "	
2	N	" " " " " "	
3	N	Fragments of fleecy clouds scattered about, moving N.	
1	C	Fragments of fleecy clouds scattered about, moving NE.	
0	C	Patches of fleecy clouds scattered about hor. from N to S; mist around hor.	
0	C	Patches of fleecy clouds scattered along E hor.; mist around hor.	
0	C	A few fragments of clouds in S; mist in hor.	
0	N	Mist around hor.	
0	N	Patches of fleecy clouds around hor., otherwise clear.	
0	N	Clear.	
0	N	"	
0	N	"	
1	N	Fleecy clouds scattered in E hem., moving N.	
2	N	" " " " "	
3	N	Fleecy clouds scattered about, moving NW.	Mean daily Temperature of Ground 20 and 60 inches below its surface 79°5 and 81°3.
4	L	Fleecy clouds scattered in E hem.	
4	L	Fleecy clouds scattered about, moving NW.	
0	L	A few patches of fleecy clouds in SE and SW, otherwise clear.	
0	L	A few patches of clouds in SE, S, SW, and W.	
0	C	A few patches of clouds in SW and W.	
0	C	Mist around hor.	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	" "	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Mar. 16th–Noon.	29.900	29.010	86°6	79°1	7°5	76°3	0.72	86°2	80°1	WNW	0.3					
1 p. m.	.861	28.949	86.6	79.6	7.0	77.1	.74	85.7	80.4	NW b N	0.6					
2 „	.825	.932	86.0	79.0	7.0	76.4	.74	85.2	80.5	„	1.0					
3 „	.802	.865	85.8	80.0	5.8	77.9	.78	85.2	80.8	„	0.8					
4 „	.794	.846	84.8	80.0	4.8	78.3	.81	84.2	80.8	„	0.0					
5 „	.795	.870	84.6	79.4	5.2	77.5	.80	83.7	80.9	„	0.0					
6 „	.804	.911	82.2	78.0	4.2	76.4	.83	82.2	80.7	„	1.2	None.	None.	None.	None.	None.
7 „	.817	.955	81.4	77.0	4.4	75.3	.82	81.6	80.7	„	0.6					
8 „	.831	.985	81.0	76.5	4.5	74.7	.82	81.3	80.5	„	0.5					
9 „	.868	.979	80.6	77.2	3.4	75.9	.86	80.6	80.5	NNW	0.2					
10 „	.871	29.188	78.8	71.5	7.3	68.1	.71	79.2	80.2	„	0.1					
11 „	.868	.163	78.0	71.6	6.4	68.6	.74	78.4	80.0	NW b N	0.0					
Mar17th-Midnight	.859	.119	78.5	73.0	5.5	70.5	.78	78.7	79.8	NW b N	0.1					
1 a. m.	.850	.042	79.2	75.0	4.2	73.3	.83	79.2	79.9	„	0.0					
2 „	.830	28.944	79.2	77.0	2.2	76.1	.91	79.2	79.9	„	0.3					
3 „	.822	.910	79.0	77.6	1.4	77.1	.94	79.0	79.9	„	0.4					
4 „	.830	.932	78.8	77.2	1.6	76.6	.93	78.8	79.3	NNW	0.2					
5 „	.867	29.006	77.2	75.8	1.4	75.2	.94	77.6	79.7	„	0.1					
6 „	.886	.100	76.0	73.5	2.5	72.4	.89	76.2	79.5	„	0.1					
7 „	.897	.124	76.6	73.3	3.3	71.9	.86	77.0	79.3	„	0.1					
8 „	.926	.090	80.2	76.0	4.2	74.3	.83	80.5	79.5	„	0.0					
9 „	.927	.093	83.2	76.8	6.4	74.3	.75	82.4	79.8	„	0.1					
10 „	.922	.115	86.4	77.0	9.4	73.2	.66	86.0	80.2	„	0.1					
11 „	.906	.103	88.2	77.4	10.8	73.1	.62	86.8	80.6	„	0.1	None.	None.	None.	None.	None.
Noon.	.874	.175	88.4	74.8	13.6	68.8	.54	87.2	81.0	„	0.1					
1 p. m.	.842	.046	91.0	78.0	13.0	72.8	.57	89.9	81.5	WNW	0.2					
2 „	.807	28.996	90.4	78.2	12.2	73.4	.59	89.2	81.8	NW b W	0.5					
3 „	.783	.955	89.6	78.4	11.2	74.0	.61	88.4	82.0	NW	0.5					
4 „	.791	.985	88.5	77.6	11.0	73.2	.62	88.4	82.2	„	0.6					
5 „	.794	29.074	87.2	75.0	12.2	69.7	.57	86.4	82.2	„	0.4					
6 „	.813	.102	84.6	74.0	10.6	69.3	.62	84.2	81.9	NW b N	0.5					
7 „	.835	.096	83.4	74.4	9.0	70.5	.66	83.5	81.7	„	0.3					
8 „	.855	.125	82.8	74.0	8.8	70.1	.67	83.0	81.7	„	0.1					
9 „	.871	.133	81.4	73.8	7.6	70.5	.70	81.6	81.5	„	0.0					
10 „	.875	.186	79.6	71.9	7.7	68.3	.70	80.3	81.1	„	0.0					
11 „	.870	.037	80.8	76.1	4.7	74.2	.81	81.0	81.0	„	0.1					
Mar18th-Midnight	.859	.028	79.9	75.8	4.1	74.1	.83	80.1	80.9	NW b N	0.0					
1 a. m.	.848	.034	79.4	75.2	4.2	73.5	.83	80.2	80.9	„	0.1					
2 „	.837	.049	79.6	74.6	5.0	72.5	.80	80.0	80.8	„	0.1					
3 „	.835	.037	79.4	74.8	4.6	72.9	.81	80.0	80.8	„	0.2					
4 „	.829	.057	79.0	74.0	5.0	71.8	.80	79.5	80.7	„	0.1					
5 „	.844	.080	78.4	73.6	4.8	71.5	.80	79.0	80.6	„	0.0					
6 „	.869	.102	77.4	73.4	4.0	71.6	.83	78.0	80.4	„	0.0					
7 „	.883	.083	78.2	74.5	3.7	73.0	.84	79.0	80.2	„	0.0					
8 „	.907	.117	81.2	75.1	6.1	72.6	.76	81.5	80.5	NNW	0.1					
9 „	.922	.196	83.2	74.0	9.2	69.9	.65	82.8	80.5	N b W	0.1					
10 „	.918	.295	85.8	72.0	13.8	65.3	.52	86.0	80.9	„	0.1					
11 „	.904	.298	91.7	73.3	18.4	64.4	.42	91.2	81.6	N b E	0.1					
Noon.	.868	.437	97.6	68.8	28.8	50.6	.23	97.2	82.5	„	0.1	None.	None.	None.	None.	None.
1 p. m.	.829	.437	100.2	70.0	30.2	51.4	.16	99.3	83.4	NNE	0.1					
2 „	.799	28.900	98.2	82.2	16.0	76.6	.51	96.0	83.9	NNW	0.2					
3 „	.780	.849	94.4	82.0	12.4	77.7	.60	93.2	83.9	NW	0.6					
4 „	.775	29.027	91.0	76.8	14.2	70.9	.53	Lost	83.8	NW b N	0.7					
5 „	.777	.019	89.8	76.7	13.1	71.3	.56	89.2	83.7	„	0.4					
6 „	.794	.009	86.2	76.4	9.8	72.4	.65	86.2	83.4	„	0.3					
7 „	.812	.103	84.8	74.0	10.8	69.2	.61	84.8	83.1	„	0.8					
8 „	.823	.105	84.0	74.0	10.0	69.6	.60	84.1	83.0	NNW	1.0					
9 „	.825	.028	83.0	75.8	7.2	72.9	.73	83.2	82.7	„	1.5					
10 „	.828	.060	82.2	74.8	7.4	71.7	.71	82.2	82.6	„	0.1					
11 „	.825	.105	81.0	73.2	7.8	69.7	.70	81.2	82.3	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀∩ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩∪ cumulo-strati; and ≀∪ nimbi.	
0	N	Mist around hor.	
0	L	〃 〃	
0	L	Mist in hor.; moderate breezes blowing.	
0	L	〃 〃 〃 〃	
0	L	〃 〃 〃 〃	
0	C	〃 〃 〃 〃	
0	C	〃 〃 〃 〃	
0	C	Clear, except in hor.; lightning in SE.	
0	C	〃 〃 〃 〃	
0	N	〃 〃 〃 〃	
0	N	〃 〃 〃 〃	
3	N	Fragments of fleecy clouds scattered about, moving NW.	
5	N	≀∩ scattered about, moving NNW.	Mean daily Temperature of Ground 20 and 60 inches below its surface 79°5 and 81°3.
0	L	A few patches of ≀∩ in E, W, and NW; otherwise clear.	
0	L	Clear, except in hor.	
0	L	〃 〃 〃	
1	L	≀∩ scattered about hor. from NE to SW, moving N.	
4	C	≀∩ scattered about, moving N.	
1	C	Patches of ≀∩ scattered about, moving N; mist in hor.	
0	C	〃 〃 〃 〃 〃	
0	C	Mist around hor.	
0	N	〃 〃	
0	N	〃 〃	
0	N	〃 〃	
0	N	A few patches of clouds along E hor.; mist in hor.	
0	L	〃 〃 〃 〃 〃	
0	L	〃 〃 〃 〃 〃	
0	L	A few patches of clouds above NE and E hor.	
0	L	〃 〃 〃 〃 〃	
0	C	〃 〃 〃 〃 〃	
0	C	A few clouds above SE and SW hor.	
0	C	Electrical clouds in SE hor.; lightning in SE.	
0	C	〃 〃 〃 〃 〃 〃	
0	N	Electrical clouds in SE hor.; lightning in SE at intervals of 2m. 30s.	
0	N	Clear, except in hor.	
0	N	〃 〃 〃	
0	N	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 79°8 and 81°3. At 2 P. M. the Temperature of Evaporation was highest during the month, and 4° higher than the Normal Mean. The Range of the Air Thermometer was about 22°8, the highest in the month. At noon, the Temperature of Dew-Point was 50°6, the lowest during the month.
0	L	〃	
0	L	〃	
0	L	〃	
0	L	〃	
0	C	〃	
0	C	Mist in hor.	
0	C	〃 〃	
0	C	〃 〃	
0	N	〃 〃	
0	N	〃 〃	
0	N	〃 〃	
0	N	〃 〃	
0	L	〃 〃	
0	L	〃 〃	
0	L	〃 〃	
0	L	〃 〃	
0	C	〃 〃	
0	C	Clear.	On the 18th, at 1h. 30m., the Temperature of External and Free Air was 102°0, being about 12° higher than the Normal Mean for that hour. Difference between the Dry and Wet Bulb Thermometers was about 32°0 at 1 P. M.
0	C	〃	
0	C	〃	
0	N	〃	28th March was the twentieth cloudless day from the beginning of the year.
0	N	〃	
0	N	〃	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −.	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
MAR 19TH-Midnight	29.812	29.118	79.4	72°0	7°4	68°6	0.71	80°2	82°0	NNW	0.0					
1 a. m.	.794	.140	78.4	70.6	7.8	66.7	.69	79.2	81.7	„	0.0					
2 „	.781	.129	79.0	70.7	8.3	66.6	.67	79.4	81.6	„	0.0					
3 „	.781	.016	79.6	74.0	5.6	71.6	.77	80.2	81.6	„	0.1					
4 „	.781	.102	79.4	71.6	7.8	67.9	.69	79.9	81.4	„	0.1					
5 „	.798	.168	78.8	70.0	8.8	65.6	.65	78.7	81.2	NE b N	0.0		+	5		Above 10m.
6 „	.824	.152	76.9	70.6	6.3	67.6	.79	78.0	80.7	NE	0.1		+	3		Above 10m.
7 „	.858	.259	79.8	70.0	9.8	65.1	.62	79.0	80.6	„	0.1					
8 „	.886	.288	83.2	70.5	12.7	64.0	.54	80.8	81.1	„	0.1		+	1		Above 10m.
9 „	.895	.255	85.6	72.4	13.2	66.1	.54	85.0	81.5	„	0.1		+	1		Above 10m.
10 „	.896	.407	89.6	69.4	20.2	58.0	.36	89.4	81.8	„	0.1		+	1		Above 10m.
11 „	.877	.363	95.0	71.8	23.2	59.4	.36	93.8	82.5	„	0.0	None.	+	4	None.	Above 10m.
Noon.	.846	.232	93.4	74.0	19.4	64.8	.40	92.2	83.0	N b E	0.1					
1 p. m.	.816	.123	93.2	76.0	17.2	68.5	.46	91.6	83.3	NW	0.6					
2 „	.788	.050	92.6	77.0	15.6	70.5	.50	91.6	83.4	NW b W	0.6					
3 „	.756	.124	92.4	74.2	18.2	65.7	.43	91.7	83.5	„	0.5					
4 „	.746	28.945	92.0	78.4	13.6	73.0	.55	91.2	83.8	NW b N	0.8					
5 „	.749	.933	89.2	78.0	11.2	73.6	.61	88.3	83.5	„	0.5					
6 „	.749	29.003	85.9	75.3	10.6	70.8	.62	87.3	83.5	„	0.7		+	1		Above 10m.
7 „	.769	.051	84.7	74.2	10.5	69.6	.61	86.8	83.4	„	0.5					
8 „	.791	.075	84.2	74.0	10.2	69.5	.62	86.7	83.2	„	0.6		+	10		Above 10m.
9 „	.811	.163	82.2	71.6	10.6	66.5	.60	82.6	82.8	„	0.2		+	1		Above 10m.
10 „	.813	.159	81.0	71.4	9.6	66.7	.63	81.4	82.6	„	0.1					
11 „	.805	.120	80.8	72.2	8.6	68.1	.67	81.2	82.5	„	0.1					
MAR 20TH-Midnight	.792	.038	80°6	74.0	6.6	71.1	.74	81.0	82.1	NW b N	0.2					
1 a. m.	.777	.016	80.0	74.0	6.0	71.4	.76	80.2	82.1	„	0.1					
2 „	.759	.146	78.2	69.4	8.8	64.8	.65	79.7	81.8	„	0.1		+	2		Above 10m.
3 „	.756	.012	78.2	73.0	5.2	70.7	.79	79.7	81.5	„	0.1		+	2		Above 10m.
4 „	.760	.072	76.6	71.0	5.6	68.3	.77	77.4	81.3	„	0.1					
5 „	.777	.091	76.8	71.0	5.8	68.2	.76	77.8	81.1	„	0.1		+	10		3.10
6 „	.792	.100	75.7	70.8	4.9	68.5	.79	77.3	80.8	„	0.1		+	2		Above 10m.
7 „	.828	.063	78.0	73.5	4.5	71.6	.81	78.5	80.6	„	0.1		+	15	13	0.07
8 „	.859	.207	83.2	72.0	11.2	66.6	.59	80.8	80.8	„	0.1		+	8		6.37
9 „	.872	.151	85.4	74.5	10.9	69.7	.61	84.2	81.3	„	0.1		+	20	20	0.52
10 „	.872	.116	88.2	76.2	12.0	71.2	.58	86.8	81.5	„	0.1		+	13	13	0.26
11 „	.862	.180	89.2	74.6	14.6	68.0	.57	87.2	82.1	„	0.2	None.	+	4		1.04
Noon.	.834	.057	90.6	77.4	13.2	72.0	.56	89.0	82.5	NW b W	0.2		+	4		1.30
1 p. m.	.794	.007	90.7	77.7	13.0	72.1	.56	89.8	82.8	W b N	0.3					
2 „	.767	28.927	90.8	79.0	11.8	74.5	.60	89.8	83.0	NW b W	0.4					
3 „	.761	.877	91.1	80.1	11.0	76.1	.63	89.9	83.3	„	0.1					
4 „	.760	.875	90.6	80.0	10.6	76.1	.64	90.4	83.5	SW	0.1					
5 „	.762	.881	89.0	79.5	9.5	76.0	.67	88.3	83.6	„	0.1					
6 „	.778	.907	85.0	78.2	6.8	75.6	.74	86.5	83.3	S b W	0.1					
7 „	.791	.988	83.2	76.0	7.2	73.1	.73	83.3	83.0	S b E	0.1					
8 „	.812	.925	83.1	78.1	5.0	76.2	.80	83.3	82.9	SSE	0.4		+	1		Above 10m.
9 „	.825	.907	82.2	78.6	3.6	77.3	.86	82.6	82.8	„	0.3					
10 „	.832	.926	81.7	78.2	3.5	76.8	.86	82.2	82.6	„	0.4					
11 „	.832	.998	80.8	77.9	2.9	76.8	.88	81.2	82.5	„	0.2		+	1		Above 10m.
MAR. 21ST-Midnight	.825	.950	80.2	77.0	3.2	75.8	0.87	80.8	82.4	SSE	0.1		+	1		0.06
1 a. m.	.805	.918	79.8	77.2	2.6	76.2	.89	80.4	82.3	„	0.1					
2 „	.794	.910	79.4	77.0	2.4	76.1	.90	79.9	82.1	„	0.1					
3 „	.793	.897	79.0	77.2	1.8	76.5	.92	79.7	82.0	S b E	0.2					
4 „	.805	.941	79.0	76.4	2.6	75.4	.89	79.8	81.9	SSW	0.1					
5 „	.811	.949	78.6	76.2	2.4	75.3	.90	78.8	81.7	SW b S	0.1	None.				
6 „	.833	.974	78.1	76.0	2.1	75.2	.91	79.3	81.5	SSW	0.1					
7 „	.852	.926	77.6	75.0	2.6	74.0	.89	78.7	81.3	E b S	0.1					
8 „	.879	29.009	80.7	77.0	3.7	75.6	.86	81.6	81.4	„	0.3		+	1		Above 10m.
9 „	.885	.010	83.8	78.0	5.8	75.8	.78	84.0	81.7	„	0.3		+	4		0.12
10 „	.887	.028	85.3	78.0	7.3	75.2	.73	84.4	82.0	„	0.1		+	10	10	0.06
11 „	.877	28.980	85.6	79.0	6.6	76.5	.75	85.3	82.2	S b W	0.2		+	2		0.18

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∿ cirri; ≀∿ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ⌒ cumulo-strati; and ≀∿ nimbi.	
0	N	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 81°5. 19th March was the twenty-first cloudless day from the beginning of the year.
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	G	"	
0	G	Mist around hor.	
0	G	" "	
0	G	Mist from SW to NW hor.; fog along E hor.	
0	N	" " " " "	
0	N	Light mist in SE and E hor.	
0	N	" " "	
0	N	" " "	
0	L	Mist in hor.	
0	L	" "	
0	L	" "	
0	L	" "	
0	G	Clear.	
0	G	"	
0	G	"	
0	G	"	
0	N	"	
0	N	"	
0	N	"	
0	N	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°1 and 81°5. 20th March was the twenty-second cloudless day from the beginning of the year.
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	G	"	
0	G	Mist around hor.	
0	G	" "	
0	G	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	G	Clear.	
0	G	"	
0	G	"	
0	G	"	
0	N	"	
0	N	"	
0	N	"	
0	N	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°4 and 81°6.
0	L	"	
0	L	"	
1	L	Patches of ≀∿ scattered about hor., moving E.	
2	L	≀∿ scattered around hor., moving N; a few dense ∿ in W, moving gently E.	
2	G	Patches of ≀∿ in SE and E about hor., moving NE.	
4	G	≀∿ scattered about, moving NNE.	
0	G	A few patches of clouds around hor.	
0	G	A solitary patch of ≀∿ above SW hor.; mist in hor.	
0	N	Mist around hor.	
0	N	" "	
0	N	" "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in Seconds from the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Mar. 21st–Noon	29.853	28.933	87°4	80°0	7°4	77°3	0.73	87°0	82°5	SSW	0.3		+	2		0.06
1 p. m.	.820	.907	88.0	80.0	8.0	77.1	.71	87.5	82.8	SW	0.3		+ +	4		0.10
2 „	.787	.868	88.2	80.2	8.0	77.3	.71	87.9	83.0	„	0.2		+ +	2		0.20
3 „	.771	.859	88.5	80.1	8.4	77.1	.70	88.0	83.2	„	0.2		+ +	10	8	0.25
4 „	.766	.853	88.0	80.0	8.0	77.1	.71	87.6	83.3	„	0.1		+	2		0.15
5 „	.774	.849	86.2	79.8	6.4	77.5	.76	86.3	83.3	WSW	0.1					
6 „	.786	.871	83.3	78.8	4.5	77.2	.82	83.5	83.0	SW b W	0.1	None.				
7 „	.816	.917	81.7	78.0	3.7	76.6	.85	82.3	82.7	SSW	0.1					
8 „	.843	.959	81.2	77.5	3.7	76.1	.85	81.8	82.5	„	0.2					
9 „	.860	.980	80.5	77.2	3.3	75.9	.86	81.3	82.4	S	0.1					
10 „	.857	.975	80.3	77.2	3.1	76.0	.87	81.2	82.3	„	0.1					
11 „	.869	.994	80.2	77.0	3.2	75.8	.87	80.3	82.1	„	0.0		+	2		Above 10m.
Mar 23rd-Midnight	.805	.988	81.2	75.8	5.4	73.6	.79	81.6	82.1	NW	0.2					
1 a. m.	.789	.960	80.8	76.0	4.8	74.1	.81	81.0	82.0	„	0.2					
2 „	.778	.977	79.2	74.8	4.4	73.0	.82	79.5	81.8	„	0.0					
3 „	.770	.961	78.1	74.7	3.4	73.3	.86	78.8	81.6	„	0.0					
4 „	.773	29.000	77.6	73.6	4.0	71.9	.83	78.6	81.4	„	0.0					
5 „	.783	.059	76.6	72.0	4.6	69.9	.81	77·2	81.2	„	0.0					
6 „	.807	.064	75.6	72.2	3.4	70.7	.85	76·6	80.9	„	0.0					
7 „	.831	.031	78.2	74.5	3.7	73.0	.85	79.3	80.8	„	0.0					
8 „	.851	.056	81.8	75.4	6.4	72.8	.75	82.1	81·2	NW b N	0.0					
9 „	.870	.067	84.2	76.3	7.9	73.1	.70	84.0	81.5	„	0.1					
10 „	.867	.058	85.4	76.8	8.6	73.3	.68	85.2	81.7	„	0.1					
11 „	.846	.117	86.4	75.0	11.4	70.1	.59	86.0	82.0	„	0.0	None.	None.	None.	None.	None.
Noon.	.810	.056	88.7	76.3	12.4	71.1	.57	88.0	82.2	W b S	0.1					
1 p. m.	.772	.061	90.1	75.6	14.5	69.3	.52	89.3	82.5	NW b W	0.5					
2 „	.738	.025	91.4	76.0	15.4	69.4	.50	90.2	83.0	NW b N	1.2					
3 „	.711	.033	91.0	75.0	16.0	67.8	.48	90.6	83.3	„	1.0					
4 „	.697	.021	91.2	75.0	16.2	67.8	.48	90.7	83.5	„	1.0					
5 „	.691	.053	89.8	73·6	16.2	66.0	.47	89.2	83.5	„	0.8					
6 „	.707	.101	87.3	72.0	15.3	64.4	.48	87.1	83.3	„	0.7					
7 „	.728	28.954	85.4	75.9	9.5	71.9	.65	85.1	83.2	„	0.9					
8 „	.763	.952	83.2	76.2	7.0	73.4	.73	83.3	83.0	„	1.0					
9 „	.784	.975	82.6	76.0	6.6	73.3	.75	82.8	82.8	NNW	0.6					
10 „	.787	.989	82.2	75.6	6.6	72.9	.75	82.5	82.7	„	0.3					
11 „	.780	29.032	81.8	74.2	7.6	70.9	.70	82.2	82.5	„	0.2					
Mar.24th-Midnight	.773	.012	81.4	74.4	7.0	71.4	.73	81.6	82.5	NNW	0.1					
1 a. m.	.764	.031	79.8	73.2	6.6	70.2	.74	80.0	82.2	„	0.0					
2 „	.746	28.998	77.8	73.0	4.8	70.9	.80	79.0	81.9	„	0.0					
3 „	.743	29.024	78.4	72.4	6.0	69.7	.76	79.0	81.7	„	0.1					
4 „	.750	.070	79.4	71.0	6.4	67.9	.74	77.9	81.4	„	0.1					
5 „	.770	.117	76.6	70.0	6.6	66.7	.73	77.2	81.2	„	0.0					
6 „	.792	.159	76.3	69.3	7.0	65.7	.71	77.2	80.8	„	0.0					
7 „	.811	.231	78.4	68.4	10.0	63.1	.61	79.5	80.8	„	0.2					
8 „	.841	.322	83.2	68.2	15.0	59.7	.47	83.2	81.0	N	0.2					
9 „	.849	.398	87.6	67.6	20.0	55.5	.36	88.2	81.5	NNE	0.3					
10 „	.850	.204	89.8	73.8	16.0	66.4	.48	88.2	82.3	„	0.2					
11 „	.837	.111	90.2	76.0	14.2	69.9	.53	89.0	82.5	„	0.1					
Noon.	.805	.099	90.6	75.6	15.0	69.1	.51	90.0	82.8	„	0.4	None.	None.	None.	None.	None.
1 p. m.	.777	.077	90.8	75.5	15.3	68.8	.50	89.8	83.1	NW	0.4					
2 „	.748	.036	92.2	76.2	16.0	69.3	.49	91.2	83.5	„	0.5					
3 „	.719	.013	92.0	76.0	16.0	69.1	.48	91.0	83.7	„	0.8					
4 „	.707	.016	91.2	75.4	15.8	68.4	.49	91.0	83.8	„	0.8					
5 „	.707	28.972	89.4	76.0	13.4	70.3	.55	88.8	83.9	„	0.5					
6 „	.715	29.007	86.2	74.4	11.8	69.2	.58	86.2	83.5	„	0.6					
7 „	.726	28.963	85.0	75.5	9.5	71.5	.65	85.0	83.4	„	0.4					
8 „	.754	.969	83.8	75.7	8.1	72.4	.69	84.2	83.3	„	0.5					
9 „	.777	.994	82.6	75.6	7.0	72.3	.73	83.0	83.0	„	0.6					
10 „	.776	29.039	82.2	74.0	8.2	70.4	.69	82.4	82.8	„	1.0					
11 „	.777	28.974	81.8	75.6	6.2	73.1	.76	82.2	82.8	„	0.5					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩⌣ cumulo-strati; and ≀⌣ nimbi.	
0	N	Mist around hor.	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	A few fragments of fleecy clouds in E hor.	
0	G	A few fragments of clouds around hor.	
3	G	Patches of ≀≀ scattered about, rather densely along E hor.; their motion was E.	
2	G	≀≀ scattered about hor., moving E.	
1	G	Patches of ≀≀ scattered here and there, except in zth.	
1	G	A few patches of clouds about hor., otherwise clear.	
0	G	A few patches of clouds in NW above hor.	
0	G	Clear, except in hor.	
0	N	Clear, except in hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°8 and 81°7. On the 23rd evening minimum of Barometer was a little later, and its height at 5 P. M. was about 0.074 lower than the Normal Mean, and its daily Range was 0.179, the highest the month. Wind blowing in the afternoon, Maximum Pressure of which was about 2.5 lb. 23rd March was an almost cloudless day.
0	N	" "	
0	L	A few patches of ≀≀ along E hor., otherwise clear.	
0	L	" " " " "	
0	L	" " " " "	
0	C	Clear, except in hor.	
0	C	Mist in hor.	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	"	
0	N	"	
0	N	Clear, except in hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°8 and 81°7. On the 24th light breezes in the evening, maximum pressure of which was less than 2 lbs. 24th March was almost a cloudless day.
0	L	" "	
0	L	A few ≀ in E and SE above hor.	
0	L	" " " "	
0	L	" " " "	
0	C	Clear.	
0	C	Mist in hor.	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	N	"	
0	N	"	
0	N	"	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in seconds during same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Mar 25th-Midnight	29.766	28.954	81°4	75°6	5°4	73°4	0.79	80°8	82°6	NW b N	0.2					
1 a. m.	.742	.977	79.0	73.8	5.2	71.6	.79	79.5	82.3	„	0.1					
2 „	.737	.972	79.0	73.8	5.2	71.6	.79	79.7	82.1	„	0.0					
3 „	.733	.996	78.8	73.0	5.8	70.4	.77	79.4	82.0	„	0.0					
4 „	.736	29.004	78.0	72.6	5.4	70.2	.78	78.6	81.8	„	0.0					
5 „	.751	.072	76.8	70.8	6.0	67.9	.75	77.8	81.5	NNW	0.1					
6 „	.777	.112	77.1	70.5	6.6	67.2	.73	77.8	81.2	„	0.1					
7 „	.798	.108	77.8	71.4	6.4	68.4	.74	78.6	81.2	„	0.0					
8 „	.831	.079	81.8	74.3	7.5	71.0	.70	82.1	81.4	„	0.1					
9 „	.842	.139	84.6	73.8	10.8	69.0	.61	84.1	81.7	NW b N	0.0					
10 „	.845	.154	86.4	74.0	12.4	68.4	.56	85.4	82.0	„	0.1					
11 „	.834	.055	88.2	76.8	11.4	72.1	.60	87.2	82.2	„	0.1	None.	None.	None.	None.	None.
Noon.	.802	.033	89.8	77.0	12.8	71.7	.57	88.8	82.7	„	0.5					
1 p. m.	.766	28.991	89.8	77.4	12.4	72.4	.58	89 2	83.0	NW	0.5					
2 „	.743	.985	89.5	76.9	12.6	71.7	.57	88.6	83.2	NW b W	0.8					
3 „	.729	29.007	90.2	76.2	14.0	70.3	.53	89.6	83.4	„	0.6					
4 „	.723	28.987	90.0	76.2	13.8	70.4	.54	90.0	83.5	„	0.3					
5 „	.727	.965	88.7	76.5	12.2	71.4	.58	88.3	83.6	„	0.2					
6 „	.746	.973	85.2	75.8	9.4	71.9	.66	84.7	83.4	„	0.3					
7 „	.777	.975	83.3	76.0	7.3	73.0	.72	83.3	83.1	„	0.2					
8 „	.801	29.006	82.1	75.5	6.6	72.8	.74	82.7	83.0	„	0.1					
9 „	.827	.024	81.5	75.5	6.0	73.0	.76	82.2	82.8	„	0.0					
10 „	.826	.009	81.2	75.8	5.4	73.6	.79	82.0	82.5	„	0.1					
11 „	.829	.043	81.2	75.0	6.2	72.4	.76	82.0	82.5	„	0.2					
Mar 26th-Midnight	.829	.017	81.0	75.6	5.4	73.4	.79	81.4	82.4	NW b W	0.4					
1 a. m.	.807	.006	80.6	75.2	5.4	73.0	.78	80.8	82.3	NW	0.2					
2 „	.786	28.987	80.0	75.0	5.0	73.0	80	80.4	82.2	„	0.2					
3 „	.793	.983	79 0	75.0	4.0	73.3	.84	79.6	82.0	„	0.0					
4 „	.797	29.009	78.6	74.3	4.3	72.5	.82	79.4	81.9	„	0.0					
5 „	.816	.031	77.8	74.0	3.8	72.4	.84	78.9	81.6	„	0.0					
6 „	.831	.037	77.0	74.0	3.0	72.8	.87	78.2	81.5	„	0.0					
7 „	.847	.026	78.7	75.2	3.5	73.8	.86	80.2	81.4	„	0.0					
8 „	.878	.087	81.1	75.1	6.0	72.6	.76	81.4	81.6	„	0.0					
9 „	.892	.098	84.0	76.0	8.0	72.8	.70	83.4	81.8	„	0.0					
10 „	.903	.053	85.8	77.8	8.0	74.7	.70	85.2	82.0	„	0.1					
11 „	.892	.018	87.0	78.8	8.2	75.7	.70	86.3	82.3	NNW	0.1	None.	None.	None.	None.	None.
Noon.	.869	.002	87.6	78.8	8.8	75.5	.68	86.8	82.5	NW b N	0.2					
1 p. m.	.839	.061	87.6	76.6	11.0	73.1	.61	87.0	82.7	WNW	0.5					
2 „	.813	.085	88.6	75.6	13.0	70.0	.56	88.0	83.0	NW b W	0.4					
3 „	.795	.085	88.8	75.2	13.6	69.3	.54	88.0	83.1	„	0.7					
4 „	.784	.047	87.8	75.6	12.2	70.4	.58	87.2	83.2	„	0.8					
5 „	.783	.030	85.6	75.4	10.2	71.1	.63	85.2	83.2	WNW	0.6					
6 „	.792	.063	83.3	74.1	9.2	70.1	.66	83.3	82.9	NW b W	0.4					
7 „	.822	.085	82.2	74.0	8.2	70.4	.69	82.5	82.7	„	0.7					
8 „	.851	.031	81.6	76.0	5.6	73.7	.78	82.10	82.5	„	0.3					
9 „	.874	.026	81.2	76.6	4.6	74.8	.82	81.6	82.5	NW	0.6					
10 „	.882	.053	80.8	76.0	4.8	74.1	.81	81.2	82.3	„	0.6					
11 „	.882	.051	80.6	76.0	4.6	74.1	.82	81.2	82.3	„	0.1					
Mar 27th-Midnight	19.872	.021	79.6	76.2	3.4	74.9	.86	80.0	82.1	NW	0.0					
1 a. m.	.858	.064	78.4	74.4	4.0	72.8	.83	78.8	81.8	„	0.0					
2 „	.845	.005	78.4	75.6	2.8	74.5	.88	79.2	81.7	„	0.0					
3 „	.838	28.981	79.0	76.2	2.8	75.1	.88	79.5	81.7	„	0.2					
4 „	.835	29.030	77.4	74.4	3.0	73.2	.87	78.0	81.5	„	0.1					
5 „	.854	.065	76.4	73.7	2.7	72.6	.89	77.2	81.2	„	0.1					
6 „	.872	.091	75.8	73.3	2.5	72.2	.89	76.2	81.0	„	0.0	None.			None.	
7 „	.887	.183	76.9	71.5	5.4	69.0	.78	78.0	80.8	„	0.0					
8 „	.915	.147	81.1	74.5	6.6	71.7	.74	81.6	81.1	„	0.0					
9 „	.934	.182	83.6	72.8	8.8	71.0	.67	83.2	81.3	„	0.1		+	3		0.12
10 „	.932	.197	85.2	74.8	10.4	70.3	.62	84.4	81.5	„	0.0		+	1		Above 10m.
11 „	.925	.147	87.2	76.5	10.7	72.1	.62	86.6	81.7	„	0.2					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∿ cirri; ∿∿ cirro-cumuli; ⌒ cumuli; ⌣ cirro-strati; ⌒⌣ cumulo-strati; and ⌒∿ nimbi.	
0	N	Clear, except in hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 81°8.
0	L	" " "	
0	L	A few ∿ in E and SE above hor.	
0	L	" " " "	
0	L	" " " "	
0	C	Mist in hor.	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	Clear, except in hor.	
0	C	Clear.	
0	N	"	
0	N	A few patches of fleecy clouds scattered about, moving NW.	
3	N	Fleecy clouds scattered about, moving NW.	
4	N	Fleecy clouds scattered about, moving NNW.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°1 and 81°9.
3	L	" " " " "	
2	L	Fleecy clouds scattered about, but rather densely around hor.	
2	L	Fleecy clouds scattered about, moving NW.	
2	L	" " " " "	
2	C	Fleecy clouds scattered about, moving N.	
2	C	" " " "	
5	C	Fleecy clouds scattered about, moving E.	
4	C	" " " "	
2	N	Fleecy clouds scattered about, moving NW.	
2	N	" " " " "	
0	N	Clear; mist around hor.	
0	N	" " "	
0	L	" " "	
0	L	" " "	
0	L	" " "	
0	L	" " "	
0	C	" " "	
0	C	" " "	
0	C	Clear, except in hor.	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	" "	
1	N	Patches of fleecy clouds about SE, S, and SW zth.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°2 and 81°9. On the 27th Height of Standard Barometer at 9 A. M. was about 0.050 higher than the Normal Mean for that hour.
0	L	Clear, except in hor.	
0	L	A few light ∿ along E hor.	
0	L	" " "	
0	L	" " "	
0	C	" " "	
0	C	A few patches of fleecy clouds scattered about, moving NE.	
1	C	Fleecy clouds about S and SW hor.; mist in hor.	
1	C	Fleecy clouds in E and SW above hor.; mist in hor.	
1	N	Patches of clouds to S, SW, and NW of zth., otherwise clear; mist in hor.	
0	N	Cloudless; mist in hor.	
0	N	Mist in hor.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time between giving the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Mar. 27th-Noon.	19.884	29.054	87°2	77°8	9°4	74°1	0.66	86.8	82°0	NW	0.8					
1 p. m.	.855	.010	86.5	78.0	8.5	74.7	.69	86.2	82.4	„	0.5					
2 „	.827	28.955	87.2	78.8	8.4	75.6	.70	86°6	82.5	„	0.8					
3 „	.797	.929	86.8	78.6	8.2	75.5	.70	86.2	82.6	„	0.8					
4 „	.786	.948	86.4	77.8	8.6	74.4	.69	86.0	82.7	„	0.6					
5 „	.771	.937	85.4	77.4	8.0	74.3	.70	85.1	82.8	NW b W	0.7					
6 „	.775	.939	83.0	76.8	6.2	74.3	.76	83.2	82.5	„	0.7					
7 „	.788	.972	82.0	76.0	6.0	73.6	.77	82.8	82.4	NW	0.4	None.	None.	None.	None.	None.
8 „	.816	29.024	81.7	75.3	6.4	72.7	.75	82.3	82.4	„	0.5					
9 „	.817	.043	81.6	74.8	6.8	71.9	.74	82.1	82.2	„	0.4					
10 „	.820	.036	81.4	75.0	6.4	72.3	.75	82.0	82.1	„	0.1					
11 „	.812	28.947	81.8	77.2	4.6	75.4	.82	82.2	82.1	„	0.2					
Mar28th-Midnight	29.799	.941	81.0	76.8	4.2	75.1	.83	81.4	82.0	NW	0.5					
1 a. m.	.776	.927	80.4	76.4	4.0	74.8	.84	81.0	81.9	NW b W	0.4					
2 „	.763	.931	79.8	75.8	4.0	74.2	.84	80.4	81.8	„	0.4					
3 „	.749	.934	79.6	75.3	4.3	73.5	.82	80.2	81.7	NW	0.4					
4 „	.738	.930	79.2	75.0	4.2	73.3	.83	79.8	81.6	„	0.3					
5 „	.761	.936	78.7	75.3	3.4	73.9	.86	79.4	81.5	„	0.1					
6 „	.773	29.049	76.6	72.0	4.6	69.9	.81	77.1	81.0	„	0.1					
7 „	.794	.046	77.4	72.9	4.5	70.9	.81	78.5	81.0	„	0.0					
8 „	.818	.048	81.2	74.6	6.6	71.8	.74	82.1	81.2	„	0.0					
9 „	.821	.131	84.4	73.4	11.0	68.4	.60	84.1	81.5	„	0.1					
10 „	.810	.041	87.0	76.2	10.8	71.7	.62	86.5	82.0	„	0.0					
11 „	.797	.041	87.8	76.1	11.7	71.2	.59	86.8	82.1	„	0.1					
Noon.	.768	28.954	89.4	78.0	11.4	73.5	.61	88.4	82.5	„	0.1	None.	None.	None.	None.	None.
1 p. m.	.741	.862	90.4	79.8	10.6	75.9	.64	89.4	82.9	WNW	0.2					
2 „	.701	.842	90.7	79.4	11.3	75.2	.62	89.8	83.2	W b N	0.2					
3 „	.671	.807	90.2	79.4	10.8	75.5	.63	89.0	83.3	„	0.2					
4 „	.667	.794	89.4	79.4	10.0	75.7	.65	88.4	83.4	W	0.2					
5 „	.677	.801	87.5	79.0	8.5	75.8	.69	86.8	83.5	SW b W	0.1					
6 „	.696	.849	84.2	77.4	6.8	74.7	.74	84.2	83.2	SW	0.1					
7 „	.717	.862	82.4	77.1	5.3	75.0	.79	83.1	83.0	„	0.1					
8 „	.744	.885	81.6	77.0	4.6	75.2	.82	82.2	82.8	S b W	0.0					
9 „	.768	.883	81.4	77.6	3.8	76.1	.85	82.2	82.7	S b E	0.1					
10 „	.761	.853	81.2	78.1	3.1	76.9	.87	82.1	82.6	„	0.2					
11 „	.756	.838	81.4	78.4	3.0	77.3	.87	82.2	82.5	S	0.3					
Mar30th-Midnight	.775	.911	79.8	76.6	3.2	75.4	.87	80.7	82.4	S b W	0.1					
1 a. m.	.769	.877	79.7	77.2	2.5	76.4	.90	80.5	82.2	SSW	0.0					
2 „	.758	.865	80.0	77.4	2.6	76.4	.89	80.6	82.2	SW b S	0.0		—	Out of Sc.	100	0.15
3 „	.732	.832	79.0	77.3	1.7	76.6	.93	79.8	82.0	S	0.0					
4 „	.735	.846	78.2	76.8	1.4	76.3	.94	78.6	82.0	„	0.0					
5 „	.744	.858	77.0	76.4	0.6	76.1	.97	79.2	84.7	S b W	0.2					
6 „	.770	.908	77.8	76.0	1.8	75.3	.92	78.7	81.5	„	0.1					
7 „	.796	.904	78.6	77.0	1.6	76.4	.93	79.8	81.5	„	0.0					
8 „	.831	.956	82.0	77.5	4.5	75.8	.82	82.6	81.8	S	0.0					
9 „	.830	.997	84.0	77.0	7.0	74.2	.73	84.1	82.2	„	0.0					
10 „	.814	29.028	84.7	76.0	8.7	72.4	.68	84.5	82.3	„	0.0					
11 „	.795	28.992	86.7	77.0	9.7	73.1	.65	86.0	82.5	„	0.1					
Noon.	.774	.886	87.6	79.3	8.3	76.2	.70	86.6	82.7	WSW	0.1	None.				
1 p. m.	.760	.800	88.8	81.3	7.5	78.7	.73	88.2	82.9	NW b W	0.5					
2 „	.732	.809	88.3	80.3	8.0	77.4	.71	87.8	83.0	NW b N	0.2					
3 „	.716	.866	89.2	78.8	10.4	74.8	.64	88.2	83.4	„	0.2					
4 „	.701	.847	89.5	79.0	10.5	75.0	.64	89.2	83.5	W b N	0.1					
5 „	.708	.866	87.6	78.2	9.4	74.6	.66	87.2	83.6	WSW	0.1					
6 „	.731	.883	84.8	77.6	7.2	74.8	.73	85.0	83.4	„	0.1					
7 „	.782	.905	83.6	78.0	5.6	75.8	.78	83.8	83.2	„	0.0					
8 „	.801	.915	82.8	78.0	4.8	76.1	.81	83.2	83.1	SW	0.0		—	Out of Sc.	Out of Sc.	Instantly.
9 „	.814	.921	82.2	78.0	4.2	76.4	.83	82.3	83.0	„	0.1					
10 „	.811	.906	81.9	78.2	3.7	76.8	.85	82.1	82.8	NW b W	0.1					
11 „	.806	.982	80.7	76.9	3.8	73.9	.85	80.8	82.6	NW b N	0.1					

Amount of Clouds 0 — 6.	Observers.	State of the Weather. Note.—In recording these Observations, the Symbols used to denote the clouds are: ∿ cirri; ≋ cirro-cumuli; ⌒ cumuli; ⌣ cirro-strati; ⌒∿ cumulo-strati; and ≋ nimbi.	Remarks.
0	N	Mist in hor.	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	Clear, except in hor.	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	Clear, except in hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°3 and 82°0. On the 28th at 4 P. M. height of Barometer was 29.667, the lowest during the month, being about 0.090 lower than the Normal Mean.
0	L	" "	
0	L	A few ≋ above E and SE hor., otherwise cloudless.	
0	L	" " " " " "	
0	L	" " " " " "	
0	C	" " " " " "	
0	C	Patches of ≋ about hor. from N to E; mist in hor.	
0	C	Mist in hor.	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	A few clouds about S hor.	
0	C	A few ∿ about NE and E hor.; patches of ≋.	
0	C	A few clouds about S hor.	
1	C	A few ∿ about NE and E hor.; ≋ scattered in SW, moving NE.	
3	C	≋ scattered in S hem.; scud in N hem., moving NE; continuous lightning in SW.	
4	C	≋ scattered about, moving NE; continuous lightning in E, NE, and N hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°3 and 82°0. On this day at 1 P. M. Temperature of calculated Dew-Point was 78°7, the greatest during the month. On the preceding day Wind blew abnormally. On the 30th the squall came from NE by N to S; it lasted for about 20m.
4	N	≋ scattered about hor., moving NW; lightning around hor.; thunder in SE. [2m.	
7	N	Nearly overcast with ≋; loud peals of thunder; lightning in E & NE; rain at 2h. for	
3	N	Clouded with ≋, densely around hor., motion W; lightning in N every minute.	
3	N	≋ scattered about, moving NNW; lightning occasionally from electrical clouds.	
3	L	≋ scattered about, moving W; lightning in S.	
2	L	≋ scattered around hor.; ∿ in SE; ≋ in S, moving N.	
4	L	Light ≋ scattered about, moving NW; a few ∿ W of zth.; mist in hor.	
4	L	Light ≋ scattered about, moving N; mist in hor.	
5	C	Light ≋ scattered about.	
1	C	Clouded around hor.	
2	C	Light ∿ in SW; light ≋ scattered about.	
5	C	≋ scattered about; light ∿ W of zth.	
2	N	Electrical ⌒ in NE; ≋ scattered in S and SW, moving NNW.	
2	N	" " " " " " "	
1	N	⌒ in hor. from NE to SE; haze around hor.	
1	N	⌒ in E and SE hor.; a few patches of ≋ SW of zth.	
0	L	Electrical ⌒ in E and SE; mist around hor.	
7	L	Patches of ≋ and ∿ scattered about, moving N.	
8	L	Overcast with ≋ and ≋ in two strata, the former moving NE.	
7	L	≋ scattered throughout, except in zth.; lightning at 7h. 30m.; thunder in S.	
8	G	Nearly overcast with ≋, moving NW; lightning in N and NE every 2m.;	
8	G	Densely clouded with ≋, moving NW; no lightning or thunder. [thunder in SW.	
3	G	≋ scattered about hor., otherwise clear.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet-Bulb Thermometer.	Depression of Wet-Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Mar. 31st-Midnight	28.802	28.919	80°6	77°3	3°3	76°0	0.86	80°6	82°5	NW b N	0.1					
1 a. m.	.796	.900	80.4	77.6	2.8	76.5	.88	81.0	82.5	„	0.2					
2 „	.779	.894	80.0	77.2	2.8	76.1	.88	80.4	82.4	NNW	0.1					
3 „	.771	.885	79.2	77.0	2.2	76.1	.91	79.4	82.3	„	0.2					
4 „	.770	.910	78.4	76.1	2.3	75.2	.90	79.0	82.0	N b W	0.1					
5 „	.787	.931	78.4	76.0	2.4	75.1	.90	79.0	81.9	NNE	0.1					
6 „	.814	.958	78.4	76.0	2.4	75.1	.90	79.2	81.8	„	0.2					
7 „	.843	.976	80.2	76.8	3.4	75.5	.86	81.2	81.8	E b N	0.1					
8 „	.876	29.003	82.9	77.7	5.2	75.7	.80	83.0	82.0	„	0.1					
9 „	.880	.011	84.4	78.0	6.4	75.5	.76	84.3	82.3	„	0.0					
10 „	.874	.068	86.5	77.0	9.5	73.2	.66	85.3	82.5	„	0.0					
11 „	.856	.102	89.4	76.5	12.9	71.1	.56	88.4	82.8	„	0.0					
Noon.	.832	.090	92.3	77.0	15.3	70.6	.50	90.8	83.3	„	0.0	None.	None.	None.	None.	None.
1 p. m.	.806	.003	93.1	78.7	14.4	73.1	.53	91.3	83.5	WNW	0.2					
2 „	.788	.005	92.9	78.2	14.7	72.3	.53	92.2	83.8	W b N	0.3					
3 „	.772	28.967	92.5	78.6	13.9	73.2	.55	92.2	84.0	WNW	0.4					
4 „	.776	.919	90.0	79.2	10.8	75.1	.63	89.8	84.0	NW b W	0.2					
5 „	.780	.901	87.3	79.0	8.3	75.9	.70	86.8	83.9	NNW	0.4					
6 „	.786	.948	84.7	77.3	7.4	74.4	.72	84.7	83.6	„	0.2					
7 „	.806	.937	83.6	77.8	5.8	75.5	.78	84.0	83.5	„	0.1					
8 „	.819	.947	83.0	77.7	5.3	75.6	.79	83.4	83.4	„	0.0					
9 „	.838	.953	82.2	77.8	4.4	76.1	.83	82.6	83.2	„	0.0					
10 „	.828	.980	81.0	76.8	4.2	75.1	.83	81.6	83.1	„	0.0					
11 „	.830	29.025	80.2	75.2	5.0	73.2	.80	81.2	82.8	„	0.0					
Apr. 1st-Midnight	.827	.009	80.4	75.6	4.8	73.6	.81	81.2	82.7	NNW	0.1					
1 a. m.	.814	28.999	80.7	75.6	5.1	73.5	.80	81.4	82.6	„	0.2					
2 „	.801	.962	80.9	76.3	4.6	74.4	.82	81.4	82.5	„	0.3					
3 „	.801	.976	81.2	76.0	5.2	73.9	.79	81.6	82.5	N b W	0.5					
4 „	.805	29.003	80.6	75.1	5.5	73.0	.78	81.0	82.3	„	0.3					
5 „	.815	.117	78.3	71.8	6.5	68.7	.73	78.7	82.1	N	0.2					
6 „	.822	.166	77.3	70.3	7.0	66.8	.71	78.0	81.7	N b E	0.1					
7 „	.848	.130	80.5	73.0	7.5	69.6	.71	81.2	81.8	„	0.0					
8 „	.859	.174	83.5	72.3	11.2	68.1	.59	83.6	82.1	„	0.2					
9 „	.865	.172	87.6	74.4	13.2	68.5	.55	86.8	82.5	„	0.1					
10 „	.853	.200	89.8	74.0	15.8	66.7	.48	89.4	82.9	„	0.2					
11 „	.835	.027	92.2	78.6	13.6	73.3	.55	90.7	83.4	„	0.1					
Noon.	.805	28.971	91.4	79.0	12.4	74.3	.58	90.5	83.7	ENE	0.3	None.	None.	None.	None.	None.
1 p. m.	.779	.885	91.4	80.4	11.0	76.4	.63	91.0	83.7	NW	0.7					
2 „	.752	.878	91.6	80.0	11.6	75.7	.61	91.0	84.0	„	0.6					
3 „	.733	.863	92.0	80.0	12.0	75.6	.60	91.2	84.3	„	0.6					
4 „	.725	.874	91.4	79.4	12.0	74.9	.59	90.8	84.5	„	0.7					
5 „	.726	.906	89.6	78.2	11.4	74.1	.61	89.1	84.5	„	0.8					
6 „	.741	.988	87.0	75.8	11.2	71.1	.60	87.0	84.3	„	0.6					
7 „	.751	29.025	86.0	74.8	11.2	69.9	.60	86.2	84.1	NW b N	0.9					
8 „	.768	.044	85.8	74.7	11.1	69.9	.60	86.1	84.1	„	0.7					
9 „	.783	.112	84.7	73.0	11.7	67.5	.58	84.6	84.0	„	0.0					
10 „	.783	.152	83.0	71.4	11.6	65.6	.57	83.6	83.6	NNW	0.0					
11 „	.779	.089	82.4	72.8	9.6	68.4	.64	83.0	83.3	„	0.0					
Apr. 2nd-Midnight	.769	28.958	83.2	76.2	7.0	73.4	.73	83.4	83.4	NW b N	0.1					
1 a. m.	.760	.907	83.3	77.3	6.0	75.0	.77	83.5	83.3	„	0.2					
2 „	.758	.912	82.8	77.0	5.8	74.7	.77	83.2	83.3	„	0.4					
3 „	.766	.905	82.2	77.2	5.0	75.2	.80	82.4	83.2	„	0.5					
4 „	.775	29.023	81.5	74.2	7.3	71.0	.72	82.1	83.0	NW	0.3					
5 „	.789	.093	79.2	72.0	7.2	68.6	.71	80.1	82.7	NNW	0.1					
6 „	.802	.067	79.0	73.0	6.0	70.3	.76	80.1	82.5	„	0.0	None.				
7 „	.830	.237	79.0	69.0	10.0	63.8	.61	80.1	82.4	„	0.0		+	Out of Sc.	45	1.00
8 „	.856	.142	84.4	74.0	10.4	69.4	.62	84.0	82.7	„	0.1		+ +	14	14	1.05
9 „	.875	.277	86.0	71.4	14.6	64.0	.50	86.0	82.8	„	0.0		+ +	12	10	1.30
10 „	.864	.191	88.0	74.0	14.0	67.6	.52	87.7	83.2	„	0.1		+	3		Above 10m.
11 „	.857	.168	90.0	75.0	15.0	68.3	.50	89.2	83.5	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩∪ cumulo-strati; and ≀∪ nimbi.	
2	G	≀≀ scattered about hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°3 and 82°0.
2	N	" " "	
1	N	" " "	
0	N	Clear, except in hor.	During this month there were eleven days considered as cloudless, out of which four only were perfect cloudless days.
0	N	" "	
1	L	A few clouds along E hor.	
0	L	≀≀ scattered in E hor.; mist around hor.	
0	L	" " " " "	
0	L	" " " " "	
0	G	∩ in hor. from SE to SW; light ≀≀ scattered about; mist in hor.	
0	G	A few patches of clouds around hor., otherwise clear.	
0	G	∩ in NE hor.; haze around hor.	
0	G	A few small fragments of clouds in E and W; haze around hor.	
0	N	∩ in N; haze around hor.	
0	N	" " "	
1	N	∩ in hor. from NW to SE; mist in hor.	
3	N	∩ along E hor.; ≀≀ scattered about, moving N.	
2	C	" " " " " "	
4	C	∩ along E hor.; ≀≀ scattered about, moving E.	
2	C	≀≀ scattered about, moving E; a few ≀ in W.	
3	C	≀≀ scattered about, moving E.	
3	L	" " "	
2	L	≀≀ scattered about, moving NE.	
2	L	≀≀ scattered in NE and E and around hor., moving E.	
2	L	≀≀ scattered about hor., moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°5 and 82°1. On the 1st the Range of Air Thermometer was greatest during the month. At 11 A. M. the Wet Bulb Thermometer rose 4°6 in one hour; and at the same hour the Temperature of Free Air was 5°1 higher than the Normal Mean.
2	N	" " " "	
3	N	≀≀ scattered about, moving NE.	
2	N	" " " "	
2	N	" " " "	
2	C	" " " "	
2	C	≀≀ scattered about hor.	
1	C	Patches of ≀≀ in E and about zth., and also around hor.; mist in hor.	
1	C	Patches of ≀≀ in SW and W above hor.; mist around hor.	
1	L	≀≀ in W and NW; mist around hor.	
0	L	A few ≀ in SE, S, and SW above hor.; mist in hor.	
1	L	Light ≀ scattered around hor., except in S and NE; mist around hor.	
3	L	Light ≀ scattered about, mist in hor.	
3	N	≀≀ along E hor.; ≀ scattered about.	
3	N	" " " "	
2	N	≀≀ along E hor.; ≀ scattered above W hor.	
2	N	" " " " "	
2	C	≀≀ along E hor.; ≀ scattered from SE to N hor.	
2	C	≀≀ along E hor.; ≀ scattered about.	
3	C	" " " "	
2	C	≀≀ in S hor.; ≀ scattered about.	
6	L	Densely clouded with ≀, moving NW.	
6	L	Densely clouded with ≀, moving NW; a few ≀≀ scattered about zth.	
7	L	Densely clouded with ≀, moving NW.	
5	L	≀ scattered about, moving NE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°6 and 82°2. At 7 A. M. Wet Bulb Thermometer fell 4°0 in one hour and rose 5°0 the next.
6	N	≀≀ scattered about, moving NW.	
6	N	Densely clouded with ≀ and ≀≀, the latter moving NW.	
3	N	≀ and ≀≀ scattered about hor., moving NNE.	
3	N	≀≀ around hor.; ≀ scattered about.	
4	C	" " " "	
7	C	Densely clouded with dense ≀ and ≀≀, the latter moving NE; mist in hor.	
7	C	Densely clouded with dense ≀ and ≀≀, the latter moving E; mist in hor.	
8	C	" " " " " " "	
8	L	Overcast with ≀ and ≀≀, the latter moving N; mist in hor.	
7	L	Densely clouded with ≀ and ≀≀, the latter moving N; mist in E hor.	
8	L	Densely clouded with ≀ and ≀≀, the latter moving NE; mist in E hor.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 feet in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Apr. 2nd–Noon.	29.833	29.146	90°2	75°0	15°2	68°2	0.50	90°0	83°8	NNW	0.3					
1 p. m.	.808	.148	91.2	74.6	16.6	67.0	.46	90.4	84.0	NW	0.5					
2 „	.774	.094	91.8	75.3	16.5	67.9	.47	91.0	84.3	„	0.5					
3 „	.758	.045	91.4	76.0	15.4	69.4	.50	91.0	84.4	„	0.4					
4 „	.742	.049	91.0	75.4	15.6	68.5	.49	90.8	84.5	„	0.2		+	1		Above 10m.
5 „	.743	.094	90.2	74.0	16.2	66.5	.47	89.8	84.6	„	0.5					
6 „	.749	.034	87.6	75.0	12.6	69.5	.56	87.2	84.5	„	0.2					
7 „	.779	.041	86.6	75.3	11.3	70.5	.60	86.6	84.4	„	0.2					
8 „	.772	.018	85.3	76.0	9.8	71.9	.65	85.8	84.3	„	0.3					
9 „	.802	.076	84.6	74.4	10.2	69.9	.63	84.9	84.1	„	0.2					
10 „	.805	.005	84.2	76.2	8.0	73.0	.70	84.4	84.0	„	0.2		+	3		2·00
11 „	.803	28.988	83.1	76.3	6.8	73.5	.74	83.5	83.9	„	0.2					
Apr. 3rd–Midnight	.826	29.087	82.0	74.0	8.0	70.5	.69	82.7	83.7	NW b W	0.0					
1 a. m.	.816	.051	81.0	74.4	6.6	71.6	.74	82.0	83.4	„	0.0					
2 „	.811	.054	80.4	74.0	6.4	71.2	.75	81.4	83.1	„	0.0					
3 „	.802	.036	79.6	74.0	5.6	71.6	.78	80.0	83.0	„	0.0					
4 „	.793	.056	78.8	73.0	5.8	70.4	.77	80.0	82.7	„	0.0					
5 „	.805	.033	79.0	74.0	5.0	71.8	.80	80.2	82.6	„	0.1					
6 „	.815	.043	79.0	74.0	5.0	71.8	.80	79.5	82.5	NW	0.0					
7 „	.833	.038	80.8	75.4	5.4	72.8	.79	81.7	82.5	„	0.0		Pos.	14	12	1.30
8 „	.857	.105	83.2	74.7	8.5	71.0	.68	83.4	82.7	„	0.0		Pos.	4		0.25
9 „	.868	.141	86.5	75.0	11.5	70.0	.59	86.2	83.0	„	0.1					
10 „	.870	.072	87.2	77.0	10.2	72.9	.64	86.4	83.3	„	0.1					
11 „	.859	28.998	87.4	78.6	8.8	75.2	.68	86.8	83.4	NW b W	0.3					
Noon.	.833	.994	87.1	78.0	9.1	74.4	.67	86.6	83.5	„	0.4					
1 p. m.	.802	29.010	89.2	77.4	11.8	72.7	.59	89.2	83.7	„	0.5					
2 „	.776	.061	88.7	75.3	13.4	69.5	.55	88.4	83.8	NW	0.5					
3 „	.761	.035	90.2	76.0	14.2	69.9	.53	89.8	84.0	„	0.4					
4 „	.746	.009	89.2	76.0	13.2	70.4	.55	89.4	84.3	„	0.5					
5 „	.755	28.997	87.3	76.0	11.3	71.3	.60	87.2	84.3	„	0.4					
6 „	.767	29.019	84.6	75.0	9.6	70.9	.65	85.0	84.0	„	0.3					
7 „	.788	.011	83.4	75.4	8.0	72.0	.70	83.9	83.8	„	0.2					
8 „	.803	.006	83.0	75.8	7.2	72.9	.73	8.34	83.6	„	0.3					
9 „	.825	.013	82.4	76.0	6.4	73.4	.75	82.8	83.5	„	0.4					
10 „	.836	.012	82.0	76.2	5.8	73.9	.77	82.4	83.4	„	0.3					
11 „	.830	28.971	81.6	77.0	4.5	75.2	.82	82.2	83.3	„	0.1					
Apr. 4th–Midnight	.828	.964	81.2	77.0	4.2	75.4	.83	82.0	83.2	NW	0.0					
1 a. m.	.815	.951	79.8	76.6	3.2	75.4	.87	80.6	83.0	„	0.0					
2 „	.798	.943	79.2	76.2	3.0	75.0	.88	80.0	82.7	„	0.0					
3 „	.783	.956	78.2	75.2	3.0	74.0	.87	79.0	82.5	„	0.0					
4 „	.794	.980	78.0	74.8	3.2	73.5	.87	79.0	82.3	„	0.0					
5 „	.817	29.032	77.8	74.0	3.8	72.4	.84	78.8	82.2	NW b W	0.1					
6 „	.835	.042	77.7	74.0	3.7	72.5	.85	78.8	82.0	„	0.0					
7 „	.849	.068	80.2	74.6	5.6	72.2	.78	81.4	82.0	„	0.0					
8 „	.874	.110	83.2	75.0	8.2	71.5	.69	83.4	82.3	N	0.1					
9 „	.881	.154	85.2	74.6	10.6	70.0	.62	85.1	82.6	NE b N	0.0					
10 „	.870	.187	87.5	74.1	13.4	68.1	.54	87.0	83.0	„	0.0					
11 „	.850	.008	88.8	78.5	10.3	74.6	.64	87.6	83.1	NNW	0.2					
Noon.	.819	.022	90.0	77.7	12.3	72.9	.58	89.2	83.5	NW	0.3					
1 p. m.	.781	28.883	90.2	80.2	10.0	76.6	.65	89.4	83.8	NW b W	0.5					
2 „	.757	.862	89.6	80.0	9.6	76.5	.67	89.4	84.0	NW b N	1.5					
3 „	.731	.997	90.2	76.2	14.0	70.3	.53	90.2	84.1	NW	1.5					
4 „	.716	.948	89.9	77.0	12.9	71.7	.56	89.8	84.4	„	0.6					
5 „	.714	.966	87.4	75.8	11.6	70.9	.59	87.2	84.3	„	0.4					
6 „	.732	.918	85.0	76.8	8.2	73.5	.69	85.2	84.0	„	0.4					
7 „	.747	.955	84.2	76.0	8.2	72.7	.69	84.4	83.7	„	2.0					
8 „	.773	.951	83.6	76.6	7.0	73.8	.73	84.0	83.6	„	2.0					
9 „	.807	29.086	83.6	74.0	9.6	69.7	.65	84.0	83.6	NW b N	1.5					
10 „	.827	.215	82.8	70.8	12.0	64.7	.56	83.2	83.5	NNW	0.2					
11 „	.827	.296	81.6	68.0	13.6	60.4	.51	82.2	83.2	„	0.5					

None. None. None. None. None.

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ⌐i cirri; ∿i cirro-cumuli; ∩i cumuli; ⌣i cirro-strati; ∩⌣i cumulo-strati; and ∿⌣i nimbi.	
8	L	Densely clouded with ⌐i and i∿⌣, the latter moving E; mist in E hor.	
8	N	∿⌣i around hor.; ⌐i scattered throughout, moving E.	
8	N	" " " " " "	
8	N	" " " " " "	
8	N	∿⌣i around hor.; ⌐i scattered throughout.	
0	C	" " " "	
0	C	∿⌣i in hor.; ⌐i scattered W of zth.	
0	C	Overcast with ∿⌣i, moving E.	
0	C	" " "	
0	L	⌐i and ∿⌣i scattered about, moving NE.	
0	L	" " " "	
0	L	∿⌣i scattered in S hem. and a few to SE of zth.	
8	L	Densely clouded with ∿⌣i, moving NE; a few stars visible about zth.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°7 and 82°3.
8	N	⌐i and ∿⌣i scattered throughout, both moving ENE.	
2	N	∿⌣i around hor.; ⌐i scattered here and there, moving E.	
0	N	Clear, except a few clouds in hor.	
0	N	Clear, except in hor.	
0	C	" " "	
3	C	⌐i scattered about, moving W.	
0	C	Mist in hor., otherwise clear.	
1	C	A few masses of ∿⌣i in W, otherwise clear.	
1	C	⌐i and ∿⌣i scattered around hor.	
2	L	Light ∿⌣i scattered, moving N; mist in hor.	
6	L	∿⌣i scattered about; ⌐i in SW and W; mist in hor.	
5	L	∿⌣i and ∿⌣i scattered about, moving N; mist in hor.	
5	N	∿⌣i scattered about, moving E.	
5	N	" " "	
2	N	∿⌣i scattered about hor.	
2	N	∿⌣i around hor. and in SE.	
0	L	A few patches of clouds along E hor.; mist in hor.	
0	L	" " " " " "	
0	L	Clear, except in hor.	
0	L	" "	
0	C	Light ⌐i scattered in SE and E.	
2	C	" " " "	
6	C	∿⌣i scattered about, moving NE.	
2	C	Patches of ∿⌣i scattered about, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°89 and 82°30. On the 4th the Temperature of Evaporation at 11 P. M. was 68°0, the least during the month, being 9°4 lower than the Normal Mean for that hour. On this day the Range of Barometer was 0.167, the greatest during the month. Fresh breezes in the evening, maximum force of which was about 3 lbs.
3	N	" " " " "	
2	N	" " " " "	
1	N	A few clouds around hor., otherwise clear.	
2	N	⌐i and ∿⌣i scattered about, moving E.	
1	L	⌐i and a few patches of ∿⌣i along E hor., moving E.	
5	L	⌐i in SE, S, and E; ∿⌣i along E hor.	
7	L	⌐i and light ∿⌣i scattered about, moving E; mist in hor.	
5	L	∩⌣i in N; ⌐i and light ∿⌣i scattered about; mist in hor.	
1	C	∩⌣i in hor. from S to NW and in NE; mist around hor.	
0	C	A few patches of clouds in SW and W above hor.	
0	C	A few patches of clouds in N and W and in E hor.	
1	C	∩⌣i along E hor., otherwise clear.	
1	N	" " " "	
1	N	" " " "	
1	N	" " " "	
1	N	" " " "	
1	N	" " " "	
1	N	" " " "	
1	N	∿⌣i scattered about, moving ESE.	
5	N	∿⌣i scattered about, moving ENE.	
2	N	∿⌣i scattered in W hem. and in E hor.	
1	N	" " " "	
0	N	A few patches of clouds scattered around hor.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Apr. 6th–Midnight	29.851	29.011	79°8	76°0	3°8	74°5	0.84	80°2	82°8	NW	0.0					
1 a. m.	.835	28.985	78.2	75.8	2.4	74.8	.90	79.0	82.4	„	0.0					
2 „	.827	.974	77.9	75.8	2.1	75.0	.91	78.2	82.2	„	0.0					
3 „	.819	.983	77.4	75.2	2.2	74.3	.91	78.0	82.0	„	0.1					
4 „	.830	29.000	77.2	75.0	2.2	74.1	.91	77.6	81.9	„	0.1					
5 „	.845	.069	76.6	73.4	3.2	72.0	.86	77.4	81.8	N b W	0.1					
6 „	.862	.113	76.4	72.6	3.8	70.9	.84	77.4	81.8	„	0.0					
7 „	.892	.185	78.2	72.0	6.2	69.1	.75	79.6	81.5	„	0.0					
8 „	.908	.118	82.2	75.4	6.8	72.6	.74	82.4	81.8	„	0.0					
9 „	.909	.165	83.6	74.6	9.0	70.7	.67	83.4	82.0	NE	0.0					
10 „	.906	.266	85.6	72.4	13.2	66.1	.54	84.6	82.3	„	0.1					
11 „	.889	.319	89.6	71.1	16.5	62.6	.45	86.2	82.5	„	0.0	None.			None.	
Noon.	.862	.119	89.4	76.2	13.2	70.4	.55	88.2	82.9	WSW	0.1					
1 p. m.	.828	.100	90.0	76.0	14.0	70.0	.53	89.0	83.1	W	0.1					
2 „	.808	.099	91.0	75.8	15.2	69.2	.50	90.0	83.3	W b N	0.2		Pos.	1		Above 10m.
3 „	.790	.026	91.0	77.2	13.8	71.5	.54	90.2	83.5	„	0.2		Pos.	1		Above 10m.
4 „	.777	.051	89.4	75.8	13.6	69.9	.54	89.6	83.2	NW b W	0.4					
5 „	.786	.032	86.2	75.6	10.6	71.1	.62	85.7	83.2	„	0.4					
6 „	.802	.001	83.4	76.0	7.4	73.0	.72	83.4	83.2	„	0.3					
7 „	.826	.034	82.0	75.4	6.6	72.7	.74	82.6	83.0	„	0.7					
8 „	.841	.014	81.0	76.0	5.0	74.0	.80	81.8	82.9	„	0.8					
9 „	.867	.042	80.8	75.9	4.9	73.9	.80	81.5	82.8	NW	0.6					
10 „	.873	.047	80.7	75.9	4.8	74.0	.81	81.5	82.7	„	0.3					
11 „	.876	.042	80.4	76.0	4.4	74.3	.82	81.0	82.6	„	0.3					
Apr. 7th–Midnight	.869	.059	79.0	75.0	4.0	73.3	.84	79.4	82.4	NW b N	0.1					
1 a. m.	.845	.057	78.2	74.2	4.0	72.5	.83	79.0	82.1	„	0.0					
2 „	.832	.050	77.4	73.8	3.6	72.2	.85	78.0	81.8	„	0.0					
3 „	.827	.066	76.6	73.0	3.6	71.4	.85	77.4	81.6	„	0.1					
4 „	.814	.050	76.4	73.0	3.4	71.5	.85	77.0	81.4	„	0.0					
5 „	.829	.077	75.8	72.5	3.3	71.0	.86	76.8	81.3	„	0.0					
6 „	.853	.093	75.4	72.6	2.8	71.4	.89	76.2	81.1	„	0.0			3		1.30
7 „	.879	.080	78.6	74.6	4.0	73.0	.83	79.5	81.2	„	0.0			12	10	0.20
8 „	.896	.059	82.2	76.6	5.6	74.4	.78	82.4	81.5	„	0.0			4		Above 10m.
9 „	.912	.041	84.2	78.0	6.2	75.6	.76	84.0	81.9	„	0.0					
10 „	.907	.024	85.0	78.5	6.5	76.0	.75	84.3	82.2	„	0.0			1		1.40
11 „	.907	.056	86.0	78.0	8.0	74.9	.70	85.2	82.4	NW b W	0.1	None.				
Noon.	.894	.039	87.6	78.5	9.1	75.0	.67	86.4	82.6	W b N	0.1		None.			
1 p. m.	.864	28.984	88.6	79.4	9.2	76.0	.67	88.0	82.9	„	0.2			1		Above 10m.
2 „	.842	.976	89.2	79.2	10.0	75.4	.65	88.4	83.0	„	0.4			1		Above 10m.
3 „	.820	.979	89.2	78.6	10.6	74.5	.63	88.2	83.2	WNW	0.4					
4 „	.805	.969	87.4	78.0	9.4	74.3	.66	86.6	83.0	„	0.3					
5 „	.806	.961	84.4	77.4	7.0	74.7	.74	83.8	82.9	„	0.6					
6 „	.819	.995	82.0	76.2	5.8	73.9	.77	82.3	82.7	NW b W	0.4					
7 „	.832	29.016	81.0	75.7	5.3	73.6	.79	81.4	82.7	NW	0.2					
8 „	.856	.051	80.2	75.2	5.0	73.2	.80	80.9	82.6	„	0.1					
9 „	.878	.074	79.5	75.0	4.5	73.1	.82	80.2	82.5	„	0.1			1		1.30
10 „	.881	.063	79.3	75.3	4.0	73.6	.84	80.1	82.3	„	0.0			2		2.40
11 „	.879	.069	79.0	75.0	4.0	73.3	.84	80.0	82.1	„	0.0			3		1.00
Apr. 8th–Midnight	.874	.061	78.7	75.0	3.7	73.5	.85	79.8	82.0	NW	0.0					
1 a. m.	.868	.074	78.0	74.3	3.7	72.8	.85	78.6	81.8	„	0.0					
2 „	.857	.072	77.8	74.0	3.8	72.4	.84	78.4	81.6	„	0.0					
3 „	.847	.046	77.0	74.2	2.8	73.0	.88	78.0	81.4	„	0.0					
4 „	.834	.038	76.8	74.0	2.8	72.8	.88	77.0	81.2	„	0.0					
5 „	.848	.075	76.2	73.2	3.0	71.9	.87	77.0	81.2	„	0.0		Pos.	1		Above 10m.
6 „	.877	.085	75.9	73.6	2.3	72.7	.90	76.8	81.0	„	0.0	None.	Pos.	6		0.40
7 „	.903	.094	79.1	75.0	4.1	73.3	.83	80.0	81.1	NW b N	0.0		Pos.	Out of Sc.	25	0.12
8 „	.924	.101	81.4	76.0	5.4	73.8	.79	81.8	81.4	„	0.0		Pos.	3		1.30
9 „	.942	.094	82.6	77.0	5.6	74.8	.78	82.6	81.7	N	0.1		Pos.	6	4	3.45
10 „	.932	.099	84.0	77.0	7.0	74.2	.73	83.3	81.9	E	0.1		Pos.	6	5	7.10
11 „	.921	.130	85.7	76.4	9.3	72.6	.67	84.7	81.9	NW	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ∩≀ cirro-strati; ∩∩ cumulo-strati; and ≀∩ nimbi.	
0	C	Clear, except in hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°0 and 82°3.
0	N	A few pieces of clouds above SW hor.	
0	N	A few patches of clouds in NW above hor.; dew falling.	
2	N	≀ scattered about, moving E; dew falling.	
2	N	" " " "	
4	L	" " " "	
5	L	≀ scattered about; mist in hor.	
4	L	≀ scattered about; mist from SW to NE; fog along E hor.	
2	L	≀ scattered about hor. from N to S; mist and fog in hor. as before.	
0	C	≀ scattered along E hor.; mist in hor.	
0	C	Mist in hor.	
0	C	" "	
0	C	A few patches of clouds above E hor.	
0	N	" " " "	
0	N	A few clouds in N and NE hor.	
0	N	A few pieces of clouds in E hor.	
0	L	Clear.	
0	L	"	
0	L	"	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°1 and 82°4. On the 7th at 6 A. M. the Reading of Air Thermometer was as low as 75°4, being about 2°0 lower than the Normal Mean.
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	L	"	
0	L	A few patches of clouds above hor. from S to NW; mist in hor. from N to SE.	
0	L	A few pieces of clouds along W hor.; mist in hor. from N to S.	
0	L	A few pieces of clouds in SE and W hor.; mist in hor. from N to S.	
0	C	A few pieces of clouds in NE and S of zth., moving SW.	
0	C	A few pieces of clouds in NE and about zth., moving W.	
0	C	A few pieces of clouds about N hor.	
0	C	A few patches of clouds along E hor.	
0	N	" " " "	
1	N	" " " "	
1	N	" " " "	
0	N	" " " "	
0	L	A few pieces of clouds in NE and E hor.	
0	L	Clear.	
0	L	"	
0	L	"	
0	C	"	
0	C	"	
1	C	Patches of fleecy clouds scattered here and there, moving SE.	
4	C	Fleecy clouds scattered about.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°1 and 82°3. On the 8th at 9 A. M. the Height of Barometer was 29.942, the greatest during the month, being about 0.075 greater than the Normal Mean. On this day Wind blew in a direct circular motion.
0	N	Clear; dew falling.	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	Patches of fleecy clouds in SW and W.	
0	L	Patches of clouds along W hor.; light mist along E hor.	
2	L	Fleecy clouds scattered about, moving E; mist along E hor.	
3	L	Fleecy clouds scattered about, moving SE; mist along E hor.	
4	C	" " " " " "	
2	C	" " " " " "	
1	C	Patches of fleecy clouds scattered about N, NE, and E hor.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Apr. 8th–Noon.	29.906	29.081	87°0	77°6	9°4	73°9	0.66	86°2	82°2	NW	0.2		Pos.	1		1.50
1 p. m.	.870	.007	88.0	78.8	9.2	75.3	.67	87.2	82.5	WNW	0.3		Pos.	2		0.30
2 „	.845	28.990	88.0	78.6	9.4	75.0	.67	87.2	82.9	W b N	0.3					
3 „	.823	.952	88.0	79.0	9.0	75.6	.68	87.2	82.8	„	0.4					
4 „	.819	.979	87.0	78.0	9.0	74.5	.67	86.2	83.0	WNW	0.4					
5 „	.819	.993	84.6	77.0	7.6	74.0	.71	84.4	83.0	„	0.4					
6 „	.835	29.004	82.0	76.4	5.6	74.1	.78	82.2	82.5	NW b W	0.3	None.			None.	
7 „	.854	.038	80.6	75.6	5.0	73.6	.80	81.0	82.3	„	0.3					
8 „	.871	.064	80.0	75.2	4.8	73.2	.81	80.4	82.2	„	0.3					
9 „	.877	.074	79.6	75.0	4.6	73.1	.82	80.1	82.1	„	0.1			1	Pos.	Above 10m.
10 „	.882	.058	79.5	75.5	4.0	73.9	.84	80.1	82.0	NW	0.2			1	Pos.	Above 10m.
11 „	.879	.072	79.3	75.0	4.3	73.2	.82	80.0	81.9	„	0.4			1	Pos.	2.45
Apr. 9th–Midnight	.870	.054	79.2	75.2	4.0	73.6	.84	80.0	81.8	NW b N	0.1					
1 a. m.	.861	.056	78.8	74.8	4.0	73.2	.84	79.4	81.6	NNW	0.2					
2 „	.858	.044	78.6	75.0	3.6	73.5	.85	79.2	81.5	„	0.4					
3 „	.848	.069	78.4	74.0	4.4	72.1	.82	79.0	81.4	„	0.2					
4 „	.845	.058	77.0	73.8	3.2	72.5	.87	77.8	81.2	„	0.1					
5 „	.852	.061	76.6	73.8	2.8	72.6	.88	77.2	81.1	„	0.0					
6 „	.866	.041	77.0	74.8	2.2	73.9	.91	77.5	80.9	N b W	0.1		Pos.	1		Above 10m.
7 „	.885	.046	79.2	75.8	3.4	74.4	.86	80.0	81.0	NE	0.2		Pos.	1		Above 10m.
8 „	.900	.079	81.5	76.0	5.5	73.8	.78	81.8	81.3	„	0.1					
9 „	.918	.099	83.1	76.4	6.7	73.9	.75	82.7	81.5	NE b E	0.1					
10 „	.908	.100	84.1	76.4	7.7	73.3	.75	83.4	81.6	NNW	0.1					
11 „	.895	.083	85.8	78.0	7.8	73.4	.71	84.9	81.9	„	0.1					
Noon.	.870	28.991	87.3	79.0	8.3	75.9	.70	86.2	82.3	NW	0.3	None.			None.	
1 p. m.	.835	.917	87.5	80.0	7.5	77.3	.73	86.8	82.5	WNW	0.5					
2 „	.813	.938	87.6	79.0	8.6	75.8	.69	87.0	82.6	„	0.5					
3 „	.793	.934	86.8	78.4	8.4	75.2	.69	86.2	82.5	NW	0.5					
4 „	.785	.918	86.0	78.4	7.6	75.5	.73	85.8	82.5	„	0.4					
5 „	.792	.934	83.2	77.4	5.8	75.1	.77	83.2	82.5	„	0.6					
6 „	.806	29.006	81.3	75.4	5.9	73.0	.77	81.3	82.4	„	0.2					
7 „	.823	.002	80.5	75.7	4.8	73.8	.81	81.0	82.2	NW b N	0.2					
8 „	.845	.022	80.0	75.6	4.4	73.9	.82	80.7	82.1	„	0.1					
9 „	.843	.042	79.8	75.0	4.8	73.0	.81	80.4	82.0	„	0.1					
10 „	.843	.042	79.8	75.0	4.8	73.0	.81	80.4	81.9	„	0.1					
11 „	.839	28.999	79.8	76.0	3.8	74.5	.84	80.2	81.8	„	0.3					
Apr. 11th–Midnight	.826	29.099	76.4	72.0	4.4	70.0	.81	77.1	80.9	NW	0.0					
1 a. m.	.821	.098	77.4	72.2	5.2	69.8	.78	78.2	80.7	„	0.1					
2 „	.816	.090	77.8	72.4	5.4	69.9	.78	78.2	80.5	„	0.2					
3 „	.813	.125	77.7	71.3	6.4	68.3	.74	78.2	80.5	„	0.1					
4 „	.810	.123	77.4	71.2	6.2	68.2	.74	78.0	80.5	„	0.1					
5 „	.824	.135	77.2	71.2	6.0	68.3	.75	77.9	80.4	NW b W	0.1					
6 „	.842	.157	76.9	71.0	5.9	68.1	.76	77.5	80.3	„	0.1					
7 „	.862	.155	80.2	72.6	7.6	69.1	.71	80.3	80.5	„	0.0					
8 „	.878	.112	83.0	75.0	8.0	71.6	.70	82.6	80.8	NNE	0.1					
9 „	.891	.121	84.5	75.5	9.0	71.7	.67	83.7	81.2	NE	0.0					
10 „	.887	.182	86.1	74.3	11.8	69.0	.58	84.8	81.5	NNW	0.1					
11 „	.878	.162	86.8	74.7	12.1	69.5	.57	85.2	81.7	NW b N	0.1	None.	None.	None.	None.	None.
Noon.	.855	.163	88.0	74.5	13.5	68.5	.54	86.2	82.0	NW	0.1					
1 p. m.	.823	.088	88.6	75.8	12.8	70.3	.56	87.2	82.2	NNW	0.2					
2 „	.805	.066	89.0	76.0	13.0	70.5	.56	87.6	82.4	NW b W	0.2					
3 „	.793	.049	88.5	76.0	12.5	70.7	.57	87.3	82.5	„	0.1					
4 „	.783	.018	88.0	76.4	11.6	71.6	.60	87.5	82.6	„	0.1					
5 „	.791	.027	85.7	75.7	10.0	71.5	.64	85.0	82.6	WNW	0.3					
6 „	.805	.082	82.4	73.7	8.7	69.8	.67	82.4	82.4	„	0.2					
7 „	.817	.114	80.6	72.6	8.0	69.0	.69	81.0	82.1	„	0.1					
8 „	.833	.161	79.4	71.4	8.0	67.6	.68	80.0	81.8	„	0.2					
9 „	.843	.138	79.0	72.2	6.8	69.0	.73	79.4	81.6	„	0.2					
10 „	.854	.152	78.6	72.0	6.6	68.9	.73	79.2	81.5	„	0.1					
11 „	.846	.132	78.2	72.2	6.0	69.4	.76	78.7	81.3	„	0.1					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀ cirro-cumuli; ≀ cumuli; ≀ cirro-strati; ≀ cumulo-strati; and ≀ nimbi.	
1	C	Patches of fleecy clouds around hor.	
1	N	Patches of fleecy clouds about hor. from N to SSE.	
1	N	" " " " " "	
1	N	A few pieces of fleecy clouds in NE, SE, and E hor.	
1	N	A few patches of clouds along E hor.	
0	L	A few ≀ in NE and E; fleecy clouds in NE hor.	
0	L	A few ≀ in NE above hor.	
0	L	A few patches of clouds in E hor., otherwise clear.	
0	L	" " " " " "	
0	C	Clear, except in hor.	
2	C	A few pieces of clouds along E hor., moving SE.	
4	C	Fleecy clouds scattered about, moving SE.	
4	C	Fleecy clouds scattered about, moving SE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°1 and 82°3.
5	N	Fleecy clouds scattered about, moving SSE.	
5	N	Fleecy clouds scattered about, moving S.	
3	N	" " " " "	
2	N	" " " " "	
1	L	Fleecy clouds scattered around hor., moving S.	
1	L	Fleecy clouds around hor.; light mist along E hor.	
1	L	A few patches of clouds along W hor.; mist in N, NE, and E hor. [E hor.	
0	L	Patches of fleecy clouds in S and W hor.; light ≀ above N hor.; mist in NE and	
0	C	Light ≀ above SW and W hor.	
0	C	Light ≀ in SW and W; a few pieces of fleecy clouds in N; otherwise clear.	
0	C	Clear.	
0	C	Patches of clouds around hor.	
0	N	" " "	
0	N	" " "	
1	N	≀ and patches of fleecy clouds scattered in NE, E, and SE.	
1	N	" " " " " " "	
1	C	Light fleecy clouds along E hor.	
0	C	" " " "	
0	C	" " " "	
0	C	" " " "	
0	C	" " " "	
0	C	" " " "	
2	C	Patches of fleecy clouds scattered about, moving SSE.	
1	C	Fleecy clouds around hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°1 and 82°4.
4	N	Fleecy clouds scattered about, moving ESE.	
4	N	Fleecy clouds scattered about, moving SE.	
4	N	" " " " "	
3	N	" " " " "	
3	L	Fleecy clouds scattered about, moving E.	
1	L	Pieces of fleecy clouds scattered about, moving SE; ≀ in N hem.	
3	L	" " " " " " ; ≀ in S hem:	
2	L	Dense fleecy clouds scattered in S and SW, and also around hor., moving E; ≀	
2	C	Dense fleecy clouds scattered about, moving E. [in N hem.	
2	C	" " " " "	
1	C	Pieces of fleecy clouds scattered about; light ≀ in N and W.	
0	C	A few clouds about N hor.	
0	N	" " "	
0	N	" " "	
0	N	" " "	
0	N	" " "	
0	L	" " "	
0	L	" " "	
0	L	" " "	
0	L	Clear, except in hor.	
0	C	" " "	
0	C	" " "	
0	C	Small pieces of clouds scattered here and there, moving E.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Apr. 13th-Midnight	29.794	28.973	79°4	75°0	4°4	73°6	0.82	80°0	81°5	NW	0.3					
1 a. m.	.773	.994	79.0	74.2	4.8	72.1	.80	79.6	81.5	„	0.2					
2 „	.768	.987	78.8	74.2	4.6	72.2	.81	79.2	81.3	„	0.2					
3 „	.775	.982	78.5	74.4	4.1	72.7	.83	79.0	81.2	„	0.1					
4 „	.779	.970	78.4	74.8	3.6	73.3	.85	79.0	81.1	„	0.2					
5 „	.797	.980	78.4	75.0	3.4	73.6	.86	79.2	81.0	„	0.1					
6 „	.815	.998	78.4	75.0	3.4	73.6	.86	79.2	81.0	NW b N	0.0					
7 „	.834	29.001	81.2	76.2	5.0	74.2	.80	81.9	81.2	„	0.0					
8 „	.857	.013	83.0	77.0	6.0	74.6	.77	82.8	81.5	„	0.1					
9 „	.869	.024	84.8	77.5	7.3	74.7	.72	84.6	81.7	NE b E	0.1					
10 „	.856	.013	86.7	78.0	8.7	74.6	.68	85.6	82.0	E	0.1					
11 „	.834	28.980	87.7	78.5	9.2	75.0	.67	86.3	82.2	N	0.0					
Noon.	.812	.933	89.2	79.5	9.7	75.9	.66	87.7	82.5	„	0.1	None.	None.	None.	None.	None.
1 p. m.	.776	.890	89.6	79.8	9.8	76.1	.66	88.2	82.8	NW	0.1					
2 „	.748	.863	89.7	79.8	9.9	76.1	.66	88.2	83.0	NW b W	0.1					
3 „	.736	.823	89.6	80.4	9.2	77.1	.68	88.6	83.2	WNW	0.1					
4 „	.738	.825	88.0	80.0	8.0	77.1	.71	87.0	83.3	NW b W	0.4					
5 „	.753	.859	85.2	78.8	6.4	76.4	.76	84.6	83 2	„	0.4					
6 „	.772	.885	82.7	78.0	4.7	76.2	.82	83.0	82.8	NW	0.3					
7 „	.790	.912	81.4	77.4	4.0	75.9	.84	81.8	82.7	„	0.2					
8 „	.816	.950	81.0	77.0	4.0	75.4	.84	81.6	82.5	„	0.2					
9 „	.841	.971	80.6	77.0	3.6	75.6	.85	81.2	82.5	„	0.3					
10 „	.844	.975	80.4	76.9	3.5	75.5	.85	81.0	82.3	„	0.1					
11 „	.834	.965	80.4	76.9	3.5	75.5	.85	81.0	82.2	„	0.1					
Apr. 14th-Midnight	.823	.968	80.2	76.5	3.7	75.0	.85	81.0	82.1	NW	0.0					
1 a. m.	.795	.936	80.2	76.6	3.6	75.2	.85	80.8	82.0	„	0.1		Pos.	1		Above 10m.
2 „	.786	.917	80.0	76.8	3.2	75.5	.87	80.6	82.0	„	0.1		Pos.	1		Above 10m.
3 „	.778	.912	79.6	76.6	3.0	75.4	.88	80.2	81.8	„	0.1		Pos.	1		Above 10m.
4 „	.779	.926	79.4	76.2	3.2	75.0	.87	80.1	81.8	„	0.0					
5 „	.793	.940	78.6	76.0	2.6	75.0	.89	79.2	81.7	„	0.1					
6 „	.819	.969	78.2	75.8	2.4	74.8	.90	79.0	81.5	„	0.0					
7 „	.845	.984	82.2	77.2	5.0	75.2	.80	82.7	81.7	„	0.0					
8 „	.877	29.029	84.8	77.6	7.2	74.8	.73	84.2	82.0	NW b N	0.1					
9 „	.889	.041	86.6	78.1	8.5	74.8	.69	85.5	82.3	„	0.2					
10 „	.884	.000	87.6	79.2	8.4	76.1	.69	86.3	82.5	„	0.1					
11 „	.870	28.996	87.9	79.1	8.8	75.7	.68	86.6	82.8	„	0.1					
Noon.	.856	.957	89.3	80.0	9.3	76.6	.67	88.1	83.0	NW b W	0.1	None.			None.	
1 p. m.	.821	.882	89.5	81.0	8.5	78.0	.70	88.4	83.0	WNW	0.3					
2 „	.798	.864	90.0	81.0	9.0	77.8	.68	88.8	83.4	NW b W	0.3					
3 „	.784	.875	88.4	80.0	8.4	76.9	.70	88.0	83.5	NW	0.3					
4 „	.782	.873	87.6	79.8	7.8	76.9	.72	87.2	83.5	„	0.2					
5 „	.785	.917	85.2	78.2	7.0	75.5	.74	85.2	83.5	„	0.4					
6 „	.809	.931	82.6	77.8	4.8	75.9	.80	83 0	83.2	„	0.6					
7 „	.825	.987	81.4	76.4	5.0	74.4	.80	82.2	82.9	NW b W	0.4					
8 „	.841	.977	81.2	77.0	4.2	75.4	.83	81.7	82.8	„	0.4					
9 „	.861	.951	80.6	78.0	2.6	77.0	.89	81.1	82.6	„	0.3					
10 „	.871	.992	80.2	77.1	3.1	75.9	.87	80.8	82.5	„	0.2					
11 „	.872	.989	80.2	77.2	3.0	76.0	.88	80.8	82.5	„	0.1		Pos.	1		3.50
Apr. 15th-Midnight	.854	.977	80.0	77.0	3.0	75.8	.88	80.7	82.3	NW b W	0.4					
1 a. m.	.835	.958	80 0	77.0	3.0	75.8	.88	80.4	82.2	NW	0.3					
2 „	.833	.954	79.8	77.0	2 8	75.9	.88	80.3	82.0	„	0.3					
3 „	.827	.946	79.6	77.0	2.6	76.0	.89	80.3	82.0	NNW	0.1					
4 „	.836	.950	79.2	77.0	2.2	76.1	.91	80.0	82.0	„	0.0					
5 „	.856	.970	79.2	77.0	2.2	76.1	.91	79.9	81.9	„	0.0					
6 „	.874	.980	79.2	77.2	2.0	76.4	.92	80.2	81.7	„	0.0					
7 „	.897	.995	81.4	78.0	3.4	76.7	.86	82.6	81.9	NE	0.1	None.	None.	None.	None.	None.
8 „	.920	29 022	84.8	78.8	6.0	76.6	.77	84.2	82.3	E	0.1					
9 „	.935	.015	86.6	79.8	6.8	77.3	.75	86.2	82.5	„	0.0					
10 „	.932	.012	86.6	79.8	6.8	77.3	.75	86.2	82.7	SE b S	0.1					
11 „	.915	.006	88.7	80.1	8.6	76.9	.69	87.4	83.0	W b N	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ⌇ cirri; ⌇⌇ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩⌣ cumulo-strati; and ⌇∩ nimbi.	
3	C	Dense fleecy clouds scattered about, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°1 and 82°6. On this day at 3 P. M. the Reading of Standard Barometer was 29.736, the least during the month.
4	N	Dense fleecy clouds scattered about, moving SE.	
4	N	" " " " "	
3	N	" " " " "	
3	N	" " " " "	
2	L	" " " " "	
2	L	" " " " "	
5	L	" " " " "	
6	L	Dense fleecy clouds scattered about, moving S.	
5	C	" " " " "	
3	C	Fleecy clouds around hor. and about zth., moving S.	
1	C	Fleecy clouds scattered about zth., moving S.	
0	C	A few pieces of clouds about N hor., otherwise clear.	
0	N	Clear.	
0	N	"	
0	N	"	
0	N	A few pieces of clouds about W hor., moving E.	
1	L	Fleecy clouds scattered around hor., moving E.	
2	L	Patches of fleecy clouds scattered about, moving SE.	
2	L	Patches of fleecy clouds scattered about, moving SSE.	
3	L	" " " " " "	
4	C	Patches of fleecy clouds scattered about, moving SE.	
3	C	" " " " " "	
4	C	" " " " " "	
6	C	⌇⌇ scattered about, moving SE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°10 and 82°69. On the 14th at 1 and 2 P. M. the Temperature of Evaporation was as high as 81°0, being about 2°0 higher than the Normal Mean.
8	N	Overcast with ⌇⌇, moving SE.	
4	N	⌇⌇ scattered around hor., moving SE.	
5	N	⌇⌇ scattered around hor., moving SSE.	
6	N	⌇⌇ scattered around hor., moving S.	
1	L	Fragments of fleecy clouds along E hor.	
1	L	Fragments of fleecy clouds around hor., except in N and S.	
0	L	Pieces of fleecy clouds along W hor.; mist in hor.	
0	L	" " " " " "	
0	C	" " " " " "	
0	C	A few pieces of clouds in NE, N, and NW hor.	
0	C	A few pieces above N hor., otherwise clear.	
0	C	Clear.	
0	N	"	
0	N	"	
0	N	"	
0	N	A few pieces of clouds along E hor.	
0	L	Clear.	
0	L	"	
0	L	"	
0	L	"	
0	C	"	
1	C	Patches of fleecy clouds in NW and W hor., moving E.	
4	C	Dense fleecy clouds scattered about, moving SE.	
3	C	Light ⌇⌇ scattered about, moving SE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°10 and 82°80. On the 15th at 9 A. M. the Reading of Standard Barometer was 0.080 higher than the Normal Mean for that hour. Wind blew in a circular motion from 7 A. M. to noon.
5	N	" " " "	
4	N	" " " "	
3	N	" " " "	
6	N	" " " "	
5	L	" " " "	
4	L	Light ⌇⌇ in SW and W hor.; ⌇⌇ scattered about, moving N; mist in hor.	
5	L	⌇⌇ in S and SW, moving S; ⌇⌇ scattered about, moving N; mist in hor.	
4	L	A few masses of ⌇⌇ in N and E, moving SE; ⌇⌇ scattered about, moving NE;	
7	N	⌇⌇ scattered throughout, moving S. [mist in hor.	
3	C	⌇⌇ scattered about hor., moving SE.	
2	C	⌇⌇ scattered around hor., otherwise clear.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Apr. 15th–Noon.	29.893	28.978	89°8	80°5	9°3	77°2	0.67	88°3	83°4	WNW	0.4					
1 p. m.	.864	.927	90.1	81.1	9.0	77.9	.68	88.8	83 5	„	0.3					
2 „	.840	.901	88.8	80.8	8.0	78.0	.71	88.2	83.5	„	0.4					
3 „	.823	.964	87.6	78.6	9.0	75.9	.68	87.2	83.5	NW b W	0.7					
4 „	.815	.933	87.0	79.0	8.0	76.0	.71	86.4	83.5	„	0.5					
5 „	.814	.924	84.8	78.6	6.2	76.3	.76	84.8	83.5	„	0.5					
6 „	.825	29.002	82.4	76.3	6.1	73.8	.76	82.8	83.1	NW	0·6	None.	None.	None.	None.	None.
7 „	.834	.003	81.4	76.2	5.2	74.1	.79	81.8	82.9	„	0.5					
8 „	.841	.014	81.0	76.0	5.0	74.0	.80	81.4	82.8	„	0.4					
9 „	.867	.001	80.6	76.9	3.7	75.4	.85	81.1	82.7	„	0.3					
10 „	.871	.004	80.2	76.8	3.4	75.5	.86	80.8	82.6	„	0.4					
11 „	.858	.018	79.8	76.0	3.8	74.5	.84	80.5	82.6	„	0.3					
Apr. 16th–Midnight	.840	.000	79.8	76.0	3.8	74.5	.84	80.2	82.4	NW	0.2					
1 a. m.	.810	28.964	80.0	76.2	3.8	74.7	.84	80.4	82.2	„	0.3					
2 „	.797	.963	79.6	75.8	3.8	74.3	.84	80.2	82.0	„	0.2					
3 „	.785	.940	79.4	76.0	3.4	74.7	.86	80.0	82.0	„	0.2					
4 „	.791	.944	79.2	76.0	3.2	74.7	.87	79.8	82.0	NW b W	0.2					
5 „	.808	.958	79.3	76.1	3.2	74.8	.87	79·9	81.9	„	0.2					
6 „	.835	.988	78.4	75.8	2.6	74.9	.89	78·7	81.7	„	0.0					
7 „	.855	.990	81.0	77.0	4.0	75.4	.84	81.5	81.7	„	0.1			2		Above 10m.
8 „	.877	29.020	84.0	77.6	6.4	75.1	.76	84.0	82·1	„	0.1					
9 „	.883	.096	86.0	76.4	9.6	72.5	.65	85.7	82.4	„	0.5					
10 „	.875	.082	87.6	77.0	10.6	72.7	.63	86.8	82.7	„	0.4					
11 „	.860	.001	88.3	78.8	9.5	75.2	.66	87.5	83.0	„	0.8					
Noon.	.830	.045	88.4	77.0	11.4	72.4	.60	88.0	83.2	„	1.2	None.	None.		None.	
1 p. m.	.802	28.978	89.2	78.2	11.0	73.9	.62	88.4	83.3	NNW	1.0					
2 „	.769	.997	88.8	76.8	12.0	71.8	.59	88.2	83.5	„	2.5					
3 „	.757	29.002	89.0	76.4	12.6	71.2	.57	88.4	83.6	NW b N	1.0					
4 „	.742	28.991	87.9	76.0	11.9	71.0	.59	87.2	83.2	NW	1.0					
5 „	.742	.948	85.4	76·4	9.0	72.8	.67	85.1	83.3	NW b W	0.4					
6 „	.754	.925	83.0	76.6	6.4	74.1	.75	83.2	83.2	WNW	0.4					
7 „	.771	.940	81.4	76.2	5.2	74.1	.79	81.6	83.0	„	0.4					
8 „	.793	.995	80.8	75.2	5.6	72.9	.78	81.2	82.6	NW b W	0.5					
9 „	.803	.966	80.8	76.2	4.6	74.4	.82	81.1	82.5	NW	0.4					
10 „	.800	.979	80.6	75.8	4.8	73.8	.81	81.0	82.5	„	0.2					
11 „	.789	.997	80.6	75.0	5.6	72.7	.78	81.0	82.4	„	0.2					
Apr. 17th–Midnight	.775	29.018	80.4	74.0	7.4	71.2	.74	80.8	82.3	NW	0.2					
1 a. m.	.761	.048	80.0	72.7	7.3	69.4	.71	80.6	82.2	„	0.3					
2 „	.753	.019	80.4	73.4	7.0	70.3	.72	80.6	82.2	NW b W	0.5					
3 „	.744	.978	80.2	74.2	6.0	71.6	.76	80.4	82.0	N b W	0.3					
4 „	.750	.984	80.2	74.2	6.0	71.6	.76	80.2	81.9	NNW	0.3					
5 „	.765	.004	80.0	74.0	6.0	71.4	.76	80.2	81.9	„	0.3					
6 „	.786	.035	79.6	73.6	6.0	71.0	.76	79.6	81.8	„	0.1					
7 „	.800	.010	81.6	75.2	6.4	72.6	.75	81.8	81.8	„	0.1					
8 „	.814	.013	84.8	76.4	8.4	73.0	.69	84.7	82.2	„	0.2					
9 „	.820	.018	86.8	77.0	9.8	73.0	.65	86.2	82.5	„	0.1					
10 „	.811	.042	88.0	76.5	11.5	71.7	.60	87.1	82.9	NW b N	0.4					
11 „	.804	.061	88.6	76.0	12.6	70.7	.57	88.2	83.0	„	0.5	None.			None.	
Noon.	.788	.040	89.6	76.4	13.2	70.8	.56	88.7	83.3	„	0.7					
1 p. m.	.763	28.994	89.3	77.0	12.8	71.7	.57	88.8	83.4	NW	0.8		Pos.	1		Above 10m.
2 „	.738	.977	89.8	76.8	13.0	71.4	.56	89.2	83.5	„	1.0		Pos.	1		Above 10m.
3 „	.722	29.016	89.2	75.2	14.0	69.1	.53	88.4	83.6	„	0.7		Pos.	2		Above 10m.
4 „	.721	.012	88.2	75.0	13.2	69.2	.55	88.2	83.6	„	0.8		Pos.	2		Above 10m.
5 „	.730	28.978	86.0	75.5	12.5	71.0	.62	85.5	83.5	„	0.5					
6 „	.757	.995	83.4	75.0	8.4	71.4	.68	83.5	83.3	„	0.3					
7 „	.774	29.046	83.0	74.0	9.0	70.0	.66	82.2	83.0	NW b W	0.3					
8 „	.790	.046	81.6	74.8	6.8	70.7	.73	81.8	82.9	W b N	0.5		Pos.	1		Above 10m.
9 „	.812	28.993	81.0	75.8	5.2	73.7	.79	81.5	82.8	W	0.1		Pos.	1		Above 10m.
10 „	.820	.989	80.6	76.0	4.6	74.1	.82	81.0	82.6	„	0.1					
11 „	.814	.970	80.2	76.2	4.0	74.6	.84	80.9	82.6	„	0.0					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∿ cirri; ∿∿ cirro-cumuli; ⌒ cumuli; ⌣ cirro-strati; ⌒⌒ cumulo-strati; and ∿∿ nimbi.	
2	C	Patches of clouds scattered about, moving E.	
0	N	A few pieces of clouds along W hor.	
0	N	Fragments of fleecy clouds scattered around hor.	
0	N	" " " " "	
0	N	" " " " "	
0	L	A few pieces of clouds in E hor., otherwise clear.	
0	L	Clear.	
0	L	"	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°10 and 82°80. Fresh breezes of Wind blew in the afternoon; maximum force was about 2.5 lbs.
0	N	Light haze in E.	
0	N	Clear.	
0	N	"	
2	N	Fleecy clouds scattered about, moving SSE.	
2	L	" " " " "	
2	L	Fleecy clouds scattered around hor., moving SSE; mist in hor.	
0	L	A few pieces of clouds in S and W hor.; mist in hor.	
0	L	A few pieces of clouds in SE and S hor.; mist in hor.	
0	C	Light mist in NE and E hor.	
0	C	Light mist along E hor.	
0	C	Clear.	
0	C	"	
0	N	"	
0	N	A few pieces of clouds along E hor.	
0	N	" " " "	
0	N	" " " "	
0	L	A few pieces of clouds in E, SE, and SW above hor.	
0	L	A few fragments of fleecy clouds above NE, E, and W hor.	
0	L	Clear, except in hor.	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°10 and 82°89. 17th April was the twenty-third cloudless day from the beginning of the year.
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	L	"	
0	L	Mist in hor.	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	Clear.	
0	L	"	
0	L	"	
0	C	"	
0	C	"	
0	C	"	

Bombay Civil Time, 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Apr. 18th-Midnight	29.809	28.969	79°8	76°0	3°8	74°5	0.85	80°3	82°4	W	0.1					
1 a. m.	.789	.983	79.4	75.0	4.4	73.2	.82	80.0	82.2	„	0.1					
2 „	.781	.973	79.2	75.0	4.2	73.3	.83	79.8	82.0	„	0.1					
3 „	.775	29.001	78.8	74.0	4.8	71.9	.80	79.4	82.0	„	0.2					
4 „	.775	28.999	78.6	74.0	4.6	72.0	.81	79.0	81.8	„	0.1					
5 „	.790	29.048	78.4	73.0	5.4	70.6	.78	79.0	81.7	„	0.1					
6 „	.812	.045	78.4	73.8	4.6	71.6	.81	79.4	81.6	„	0.1					
7 „	.833	.072	81.4	74.4	7.0	71.4	.73	81.7	81.7	W b N	0.2					
8 „	.855	.093	83.4	75.0	8.4	71.4	.68	83.2	82.0	„	0.2					
9 „	.871	.107	84.6	75.4	9.2	71.5	.66	84.1	82.1	NW b W	0.1					
10 „	.871	.099	86.0	76.0	10.0	71.8	.64	85.2	82.5	„	0.2					
11 „	.863	.097	86.5	76.0	10.5	71.6	.62	85.7	82.5	NW	0.3					
Noon.	.830	.051	86.6	76.6	10.0	72.6	.64	86.0	82.6	„	0.2	None.			None.	
1 p. m.	.805	.022	87.1	76.6	10.5	72.3	.63	86.2	82.6	WNW	0.2					
2 „	.783	.079	86.6	74.4	12.2	69.0	.57	86.1	82.6	NW	0.3					
3 „	.773	.058	87.0	74.8	12.2	69.5	.57	86.2	82.7	NW b W	0.2		Pos.	1		Above 10m.
4 „	.759	28.989	86.2	76.0	10.2	71.8	.63	85.4	82.8	„	0.3		Pos.	1		Above 10m.
5 „	.765	29.010	84.0	75.0	9.0	71.2	.67	83.5	82.8	„	0.3					
6 „	.777	28.992	82.0	75.2	6.8	72.4	.74	82.2	82.6	„	0.2					
7 „	.784	29.004	80.7	74.7	6.0	72.2	.76	81.0	82.5	„	0.1					
8 „	.810	.013	80.2	75.0	5.2	72.9	.79	80.8	82.3	„	0.2		Pos.	1		Above 10m.
9 „	.827	.028	80.0	75.0	5.0	73.0	.80	80.2	82.0	„	0.3					
10 „	.843	.022	79.8	75.5	4.3	73.8	.83	80.2	82.0	NW	0.3					
11 „	.838	.034	79.5	75.0	4.5	73.1	.82	80.0	81.8	„	0.3					
Apr. 20th-Midnight	.821	.216	78.2	69.1	9.1	64.4	.64	78.5	80.7	NW	0.2		Pos.	2		Above 10m.
1 a. m.	.804	.166	78.0	70.0	8.0	66.0	.68	78.3	80.5	„	0.1		Pos.	5		1.35
2 „	.791	.141	77.6	70.2	7.4	66.6	.70	78.0	80.5	„	0.1		Pos.	4		Above 10m.
3 „	.774	.097	77.6	71.0	6.6	67.8	.73	78.2	80.5	„	0.0		Pos.	4		2.10
4 „	.776	.083	76.2	71.0	5.2	68.5	.78	76.4	80.4	„	0.0		Pos.	6		2.30
5 „	.790	.123	75.4	70.0	5.4	67.3	.77	75.6	80.2	„	0.0		Pos.	4		Above 10m.
6 „	.813	.139	76.0	70.4	5.6	67.7	.77	77.0	80.0	„	0.1		Pos.	5		Above 10m.
7 „	.840	.141	79.2	71.4	7.8	68.8	.69	79.9	80.2	„	0.0		Pos.	4		Above 10m.
8 „	.868	.159	81.4	73.0	8.4	69.2	.68	81.4	80.5	NNW	0.1		Pos.	4		Above 10m.
9 „	.877	.209	83.0	72.4	10.6	67.4	.61	82.6	80.6	„	0.2		Pos.	3		Above 10m.
10 „	.866	.173	84.6	73.5	11.1	68.5	.60	83.6	81.0	NW b N	0.3		Pos.	2		7.30
11 „	.851	.167	85.6	73.6	12.0	68.1	.57	84.2	81.4	„	0.4	None.	Pos.	2	None.	4.15
Noon.	.822	.157	85.3	73.0	12.3	67.2	.56	84.2	81.2	„	0.4					
1 p. m.	.790	.109	85.2	73.4	11.8	68.0	.58	84.2	81.2	NW b W	0.3		Pos.	1		Above 10m.
2 „	.767	.103	85.4	73.0	12.4	67.1	.56	84.3	81.3	NW	0.6					
3 „	.759	.104	84.2	72.4	11.8	66.8	.58	83.8	81.3	„	0.5					
4 „	.751	.116	83.4	71.6	11.8	65.8	.57	83.0	81.2	„	1.0					
5 „	.754	.097	81.4	71.6	9.8	66.9	.63	81.6	81.3	„	0.8					
6 „	.775	.134	79.6	70.6	9.0	66.1	.65	79.9	81.3	NW b N	0.8					
7 „	.779	.172	78.4	69.2	9.2	64.5	.64	79.0	81.1	„	0.6					
8 „	.785	.133	78.0	70.4	7.6	66.6	.76	78.5	80.9	„	0.6					
9 „	.799	.154	77.4	70.0	7.4	66.3	.69	78.1	80.7	„	0.3					
10 „	.816	.182	76.9	69.5	7.4	65.8	.69	77.5	80.5	„	0.2					
11 „	.801	.179	76.4	69.0	7.4	65.2	.70	76.8	80.3	„	0.1					
Apr. 21st-Midnight	.787	.174	74.2	68.0	6.2	64.8	.74	74.6	80.0	NW b N	0.0					
1 a. m.	.768	.150	73.7	68.0	5.7	65.0	.76	74.2	79.7	„	0.0		Pos.	1		Above 10m.
2 „	.757	.133	73.2	68.0	5.2	65.3	.77	74.0	79.5	„	0.0		Pos.	1		Above 10m.
3 „	.761	.111	73.8	69.0	4.8	66.6	.79	74.2	79.3	„	0.0		Pos.	1		Above 10m.
4 „	.768	.098	74.4	69.8	4.6	67.5	.80	74.6	79.2	NNW	0.0		Pos.	1		Above 10m.
5 „	.779	.126	74.2	69.2	5.0	66.7	.78	74.6	79.2	„	0.0					
6 „	.798	.130	73.4	69.4	4.0	67.4	.83	74.0	79.0	„	0.0	None.	Pos.	1	None.	Above 10m.
7 „	.824	.144	77.4	71.0	6.4	67.9	.74	78.0	79.1	„	0.1					
8 „	.836	.116	80.4	73.0	7.4	69.7	.71	80.5	79.5	NE	0.2					
9 „	.841	.126	82.5	73.5	9.0	69.5	.66	82.2	79.9	„	0.2					
10 „	.831	.111	84.2	74.1	10.1	69.9	.63	83.3	80.2	NE b E	0.1					
11 „	.809	.027	86.5	76.4	10.1	72.2	.64	84.8	80.7	NNE	0.1					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩ cumulo-strati; and ≀∩ nimbi.	
2	C	Patches of fleecy clouds scattered in N hem., moving SE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°1 and 82°92. On this day the Diurnal Range of Air Thermometer was 8°7, the least during the month.
3	N	Dense fleecy clouds scattered about, moving SE.	
3	N	" " " " "	
3	N	" " " " "	
4	N	" " " " "	
2	L	" " " " "	
4	L	" " " " "	
2	L	Fleecy clouds scattered about, moving E.	
1	L	Fleecy clouds scattered about hor., moving E.	
2	N	" " " " "	
2	C	Fleecy clouds scattered about.	
2	C	" " "	
1	C	" " "	
0	N	A few clouds around hor.	
0	N	A few clouds in E and SE hor.	
0	N	Clear.	
0	N	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°1 and 83°0. On the 20th the Mean daily Temperature of calculated Dew-Point was 66°8, the least during the month.
0	N	"	
0	N	"	
0	N	"	
2	N	Fleecy clouds scattered about, moving S.	
0	L	Fleecy clouds scattered about, moving SSE.	
1	L	Fleecy clouds scattered here and there, moving SE.	
0	L	A few patches of clouds above S hor.	
0	L	A few patches of clouds about zth. and around hor., moving SSE; mist in hor.	
0	N	Mist in hor.	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	Clear.	
0	L	"	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°5 and 83°0. On the 21st at 2 A. M. the Temperature of Free Air was 73°2, the least during the month, being 7°0 lower than the Normal Mean; at the the same hour also the Temperature of Evaporation was least and 6°0 lower than the Normal Mean.
0	N	"	
0	N	"	
0	N	"	
0	N	A few light ≀ in E and SE hor.	
2	L	Light ≀ scattered about; mist in hor.	
7	L	Densely clouded with ≀, moving E; mist in hor.	
3	L	≀ scattered about, moving SW; mist in hor.	
3	L	≀ scattered about; mist in hor.	
2	C	" " "	
1	C	≀ and mist around hor., otherwise clear.	
0	C	≀ scattered in S hem.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Apr. 21st-Noon.	29.783	29.013	87°2	76°3	10°9	71°8	0.61	86°1	81°0	N b W	0.2					
1 p. m.	.743	28.976	87.2	76.2	11.0	71.6	.61	86.2	80.9	NW	0.2					
2 „	.719	.945	86.6	76.2	10.4	71.9	.63	86.0	81.2	NW b W	0.6					
3 „	.703	.988	87.6	75.0	12.6	69.5	.57	87.2	81.6	NW	1.5					
4 „	.697	29.000	87.2	74.4	12.8	68.7	.56	87.0	82.0	„	1.5					
5 „	.696	28.963	86.0	75.0	11.0	70.2	.61	85.6	82.0	„	0.8					
6 „	.708	.987	83.6	74.0	9.6	69.8	.64	83.4	81.9	„	1.0	None.	None.	None.	None.	None.
7 „	.724	.985	82.4	74.1	8.3	70.5	.68	82.7	81.7	„	0.6					
8 „	.738	.990	81.8	74.2	7.6	70.9	.71	82.2	81.6	„	0.2					
9 „	.762	.983	81.8	75.0	6.8	72.1	.74	82.2	81.6	„	0.2					
10 „	.772	.952	81.6	76.0	5.6	73.7	.78	82.0	81.5	„	0.2					
11 „	.764	.978	80.8	74.9	5.9	72.4	.77	81.2	81.5	„	0.3					
Apr. 22nd-Midnight	.755	.908	80.2	76.3	3.9	74.7	.84	80.7	81.5	NW	0.3					
1 a. m.	.738	.881	79.3	76.3	3.0	75.1	.88	80.0	81.3	„	0.2					
2 „	.724	.894	78.6	75.4	3.2	74.1	.87	79.2	81.1	„	0.1					
3 „	.713	.894	78.2	75.0	3.2	73.7	.87	78.8	81.0	„	0.1					
4 „	.714	.896	77.6	74.8	2.8	73.6	.88	78.0	80.9	„	0.0					
5 „	.715	.948	75.4	72.8	2.6	71.6	.89	75.8	80.7	„	0.0			4		0.10
6 „	.736	.967	74.6	72.6	2.0	71.7	.91	75.5	80.3	„	0.1			2		0.20
7 „	.759	29.002	79.3	73.7	5.6	71.2	.77	79.7	80.4	„	0.1			1		0.40
8 „	.770	.000	82.6	75.0	7.6	71.8	.71	82.8	80.9	NW b N	0.1					
9 „	.771	.012	85.0	75.4	9.6	71.3	.65	84.2	81.3	N	0.0					
10 „	.767	28.993	85.8	76.0	9.8	71.9	.65	84.9	81.5	NNE	0.1					
11 „	.747	29.034	87.9	75.0	12.9	69.4	.56	86.5	81.7	N	0.1	None.				
Noon.	.722	.022	89.0	75.0	14.0	68.8	.53	87.5	82.0	NW b N	0.4		None.		None.	
1 p. m.	.689	28.843	88.8	78.6	10.2	74.7	.64	87.8	82.1	NW	0.2			1		Above 10m.
2 „	.666	.802	88.6	79.0	9.6	75.4	.66	88.0	82.3	NW b W	0.5			4		0.18
3 „	.661	.805	89.4	79.0	10.4	75.1	.64	88.6	82.8	NW	0.5			2		0.18
4 „	.650	.777	88.6	79.2	9.4	75.7	.67	88.2	83.0	„	0.4			2		0.30
5 „	.651	.827	86.7	77.5	9.2	73.9	.67	86.4	83.1	NW b N	0.4					
6 „	.669	.838	84.2	77.0	7.2	74.1	.73	84.0	82.8	„	0.4			1		Above 10m.
7 „	.681	.873	82.7	76.0	6.7	73.3	.74	83.0	82.6	„	0.2					
8 „	.702	.914	82.4	75.4	7.0	72.5	.73	82.8	82.5	„	0.2					
9 „	.732	.939	81.6	75.3	6.3	72.7	.75	81.9	82.4	„	0.0			1		0.40
10 „	.740	.975	79.3	73.9	5.4	71.6	.78	79.9	82.1	„	0.0			5		0.32
11 „	.741	.887	79.6	76.3	3.3	75.0	.86	80.3	82.8	„	0.0			1		1.15
Apr. 23rd-Midnight	.741	.931	80.4	75.4	5.0	73.3	.80	80.9	81.9	NW b N	0.0					
1 a. m.	.730	.963	78.8	73.8	5.0	71.6	.80	79.2	81.5	„	0.1					
2 „	.713	.945	77.0	73.3	3.7	71.7	.84	78.0	81.4	„	0.0					
3 „	.702	.936	76.2	73.0	3.2	71.6	.86	77.0	81.1	„	0.0					
4 „	.695	.936	76.2	72.8	3.4	71.3	.85	76.8	80.9	„	0.0					
5 „	.699	.951	75.8	72.4	3.4	70.9	.85	76.6	80.7	„	0.0					
6 „	.716	.895	76.6	74.6	2.0	73.8	.71	77.2	80.7	E	0.0					
7 „	.735	.921	80.0	75.4	4.6	73.5	.81	80.2	80.8	„	0.0					
8 „	.767	.963	82.3	75.8	6.5	73.1	.75	81.8	81.2	SW	0.0					
9 „	.789	.995	84.4	76.4	8.0	72.8	.70	83.4	81.5	SW b S	0.0					
10 „	.786	.958	85.9	77.4	8.5	74.0	.69	84.6	81.7	SSW	0.1					
11 „	.780	.904	86.6	78.8	7.8	75.8	.71	85.1	82.0	„	0.2					
Noon.	.759	.900	88.0	78.7	9.3	75.2	.67	86.4	82.3	SW b'S	0.3					
1 p. m.	.732	.862	88.8	79.2	9.6	75.6	.66	87.8	82.5	SW	0.1	None.			None.	Not Observed.
2 „	.699	.826	89.4	79.4	10.0	75.7	.65	88.2	82.7	„	0.2					
3 „	.687	.774	89.6	80.4	9.2	77.1	.68	88.8	83.0	„	0.2					
4 „	.678	.769	88.4	80.0	8.4	76.9	.70	88.2	83.1	SW b W	0.2					
5 „	.682	.791	86.2	79.0	7.2	76.3	.73	85.6	83.1	„	0.2					
6 „	.707	.827	83.4	78.0	5.4	75.9	.79	83.6	82.9	SW	0.1					
7 „	.723	.858	81.8	77.2	4.6	75.4	.82	82.4	82.7	„	0.1					
8 „	.745	.879	81.0	77.0	4.0	75.4	.84	81.6	82.5	SSW	0.2		+	2		
9 „	.768	.898	80.6	77.0	3.6	75.6	.85	81.2	82.3	S b W	0.2		+	1		
10 „	.778	.923	80.2	76.5	3.7	75.0	.85	80.7	82.2	„	0.2		+	2		
11 „	.769	.901	79.8	76.7	3.1	75.5	.87	80.5	82.1	„	0.3		+	1		

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤≤ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩ cumulo-strati; and ∩⌣ nimbi.	
0	C	Mist around hor.	
5	N	≤ scattered about.	
7	N	≤ scattered about, moving SE.	
5	N	" " "	
8	N	Densely clouded with ≤, moving SE.	
8	L	Densely clouded with ≤, moving E; mist in hor.	
8	L	" " " " "	
3	L	Light ≤ scattered about hor.; mist in hor.	
0	L	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°0 and 83°0.
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	L	"	22nd April was the twenty-fourth cloudless day from the beginning of the year.
0	L	Mist in hor.	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	Clear.	
0	L	"	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°1 and 83°0. From 23rd to 25th Wind blew abnormally.
0	N	"	
0	N	"	
0	N	"	
0	N	"	
0	L	"	This was almost a cloudless day.
0	L	Mist in hor.	
0	L	" "	
0	L	" "	
0	C	A few pieces of clouds above E hor. otherwise clear.	
0	C	Clear.	
0	C	"	
0	C	"	
0	N	Mist in hor.	
0	N	" "	
0	N	" "	
0	N	" "	
0	L	" "	
0	L	A few clouds in E hor.	
0	L	A few patches of clouds in hor. from NE to SW.	
0	L	" " " " "	
0	C	" " " " "	
0	C	Clear.	
0	C	"	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −.	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in seconds for the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Apr. 24th-Midnight	29.767	28.924	79°5	76°0	3°5	74°6	·0.86	80°2	82°0	SW	0.1					
1 a. m.	.746	.899	79.2	76.0	3.2	74.7	.87	80.2	81.8	„	0.2					
2 „	.732	.918	78.6	75.0	3.6	73.5	.85	79.2	81.7	SW b S	0.1					
3 „	.716	.883	77.9	75.3	2.6	74.2	.89	78.5	81.4	SE	0.3					
4 „	.710	.867	77.4	75.4	2.0	74.6	.91	78.2	81.3	„	0.2					
5 „	.717	.896	76.6	74.6	2.0	73.8	.91	77.4	81.0	„	0.4					
6 „	.738	.917	76.6	74.6	2.0	73.8	.91	77.5	80.9	„	0.3					
7 „	.758	.935	79.2	75.4	3.8	73.8	.84	79.8	81.0	S b E	0.2					
8 „	.776	.929	82.0	76.8	3.8	74.7	.80	82.2	81.3	„	0.3					
9 „	.784	.917	84.5	78.0	6.5	75.5	.75	84.2	81.6	S b W	0.2					
10 „	.785	.897	86.1	78.9	7.2	76.2	.73	85.1	82.0	SSW	0.1					
11 „	.779	.906	87.0	78.8	8.2	75.7	.70	86.2	82.1	SW	0.1					
Noon.	.767	.896	88.0	79.0	9.0	75.6	.68	87.1	82.4	WSW	0.1	None.	None.	None.	None.	None.
1 p. m.	.737	.862	88.4	79.2	9.2	75.8	.67	87.2	82.5	SW b W	0.1					
2 „	.716	.856	89.0	79.0	10.0	75.2	.65	88.2	82.7	WSW	0.1					
3 „	.698	.802	88.8	79.8	9.0	76.5	.68	88.2	83.0	„	0.1					
4 „	.690	.811	88.0	79.2	8.8	75.9	.68	87.4	83.0	„	0.1					
5 „	.692	.822	85.8	78.4	7.4	75.6	.72	85.4	83.1	„	0.1					
6 „	.710	.836	83.2	77.8	5.4	75.7	.79	83.4	82.8	SW b S	0.1					
7 „	.731	.869	81.4	77.0	4.4	75.3	.82	82.2	82.6	SSW	0.0					
8 „	.753	.896	80.8	76.7	4.1	75.1	.84	81.5	82.4	„	0.1					
9 „	.772	.922	80.3	76.4	3.9	74.8	.84	81.0	82.3	S	0.0					
10 „	.780	.930	79.9	76.3	3.6	74.8	.85	80.8	82.2	S b W	0.1					
11 „	.775	.904	79.6	76.8	2.8	75.6	.88	80.7	82.0	„	0.0					
Apr. 25th-Midnight	.758	.903	79.2	76.2	3.0	75.0	.88	80.2	81.9	S b W	0.0					
1 a. m.	.740	.887	78.6	76.0	2.6	75.0	.89	79.6	81.8	„	0.0					
2 „	.731	.881	78.2	75.8	2.4	74.8	.90	79.2	81.5	„	0.0					
3 „	.726	.895	77.8	75.2	2.6	7.41	.89	78.6	81.5	„	0.0					
4 „	.730	.925	77.0	74.3	2.7	73.2	.89	78.0	81.3	„	0.0					
5 „	.744	.943	76.4	74.0	2.4	73.0	.90	77.5	81.1	„	0.0					
6 „	.766	.893	77.6	76.2	1.4	75.7	.94	78.2	81.0	„	0.1					
7 „	.793	.906	79.8	77.2	2.6	76.2	.89	80.6	81.1	SE b E	0.2					
8 „	.815	.921	82.8	78.2	4.6	76.4	.82	82.8	81.5	„	0.2					
9 „	.816	.934	84.3	78.3	6.0	76.0	.77	83.7	81.9	„	0.0					
10 „	.820	.903	87.6	80.0	7.6	77.2	.72	86.2	82.1	„	0.1					
11 „	.798	.916	87.0	79.0	8.0	76.0	.71	86.1	82.3	SE	0.1					
Noon.	.778	.886	88.0	79.5	8.5	76.4	.69	86.8	82.6	SSW	0.1	None.	None.	None.	None.	None.
1 p. m.	.756	.852	88.8	80.0	8.8	76.8	.69	88.1	82.8	W	0.1					
2 „	.733	.794	90.4	81.2	9.2	78.0	.68	89.6	83.0	W b N	0.1					
3 „	.714	.757	90.2	81.6	8.6	78.6	.70	89.4	83.3	„	0.2					
4 „	.696	.740	88.0	81.0	7.0	78.5	.74	87.8	83.3	„	0.2					
5 „	.691	.728	85.8	80.6	5.2	78.8	.80	85.6	83.3	WNW	0.1					
6 „	.714	.771	83.4	79.5	3.9	78.1	.85	83.4	83.0	„	0.1					
7 „	.730	.805	82.3	78.8	3.5	77.5	.86	82.9	82.9	NW	0.0					
8 „	.764	.848	81.6	78.4	3.2	77.2	.87	82.4	82.7	„	0.0					
9 „	.766	.860	81.0	78.0	3.0	76.8	.88	81.8	82.6	„	0.0					
10 „	.773	.841	81.0	78.6	2.4	77.7	.90	81.8	82.5	N b E	0.0					
11 „	.773	.842	80.7	78.5	2.2	77.7	.91	81.4	82.5	„	0.0					
Apr. 27th-Midnight	.797	.851	81.2	79.0	2.2	78.2	.91	82.1	82.8	NNW	0.1					
1 a. m.	.785	.863	80.7	78.3	2.4	77.4	.90	81.7	82.7	„	0.1					
2 „	.771	.852	79.8	78.0	1.8	77.3	.92	80.6	82.5	„	0.1					
3 „	.765	.871	79.2	77.2	2.0	76.4	.92	80.2	82.4	„	0.0					
4 „	.759	.867	78.6	77.0	1.6	76.4	.93	79.6	82.2	„	0.0					
5 „	.768	.864	79.0	77.4	1.6	76.8	.93	80.0	82.2	„	0.0					
6 „	.782	.854	79.0	78.0	1.0	77.6	.96	80.4	82.1	„	0.0	None.	None.	None.	None.	None.
7 „	.792	.818	83.2	80.2	3.0	79.1	.88	83.7	82.4	„	0.0					
8 „	.805	.867	85.7	80.0	5.7	77.9	.78	85.7	82.7	„	0.1					
9 „	.802	.856	86.6	80.4	6.2	78.2	.77	86.6	82.9	„	0.1					
10 „	.795	.824	87.5	81.2	6.3	79.0	.77	87.2	83.2	„	0.4					
11 „	.787	.787	88.0	82.0	6.0	80.1	.78	87.6	83.3	„	0.4					

Amount of Clouds 0—3.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≈ cirri; ≈≈ cirro-cumuli; ∩ cumuli; ⌒ cirro-strati; ∩⌒ cumulo-strati; and ≈⌒ nimbi.	
2	C	Patches of fleecy clouds scattered here and there.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°2 and 83°0. On the 24th the Daily Range of Barometer was 3.095, the least during the month.
1	N	Patches of fleecy clouds scattered about, moving ENE.	
1	N	" " " " " "	
0	N	A few pieces of clouds in hor.	
0	N	" " "	
0	L	Clear, except in hor.	
0	L	Pieces of clouds in hor. from S to NW; mist along E hor.	
0	L	" " " " " " "	
1	L	Fleecy clouds scattered around hor.; mist along E hor.	
1	C	Fleecy clouds scattered around hor., except in E; mist in NE and E hor.	
2	C	Patches of fleecy clouds scattered about, moving NE.	
3	C	" " " " " "	
1	C	" " " " " " "	
0	N	A few patches of clouds around hor., otherwise clear.	
0	N	" " " " " "	
0	N	A few small fragments of clouds in SE.	
0	N	Clear.	
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°3 and 83°0. On the 26th the direction of Wind was circular.
0	N	A few fragments of clouds in NE, E, and W.	
3	N	Fleecy clouds scattered about, moving E.	
3	N	" " " " "	
1	N	" " " " "	
1	L	Fleecy clouds scattered about hor. from N to S, moving N.	
1	L	Fleecy clouds around hor. except in SE and NW; mist in hor.	
1	L	" " " " " " "	
1	L	" " " " " " "	
1	C	Fleecy clouds scattered around hor.; NW of zth.	
1	C	" " " " " "	
0	C	Fleecy clouds scattered about N and SE hor.	
0	C	Fleecy clouds scattered about NE and SE hor.	
0	N	Dense ≈ scattered in SE and S; light mist in NE and E hor.	
0	N	Clear.	
0	N	"	
0	N	A few clouds in E and SE hor.	
1	L	A few patches of clouds scattered about NE and SE hor.	
1	L	" " " " " "	
1	L	" " " " " "	
0	L	A few ≈ in NE and E hor.	
0	C	Clear, except in hor.	
0	C	" "	
2	C	Fleecy clouds scattered about.	
1	C	Fleecy clouds scattered about, moving SE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°5 and 83°2. On the 26th April lightning was observed in E hor.
3	N	" " " " "	
2	N	" " " " "	
1	N	" " " " "	
5	N	" " " " "	
1	L	≈≈ scattered here and there, moving E.	
0	L	A few patches of clouds above SW and NW hor.; a few ≈ in E; mist in hor.	
0	L	A few pieces of clouds in SW and NW hor.; mist in hor.	
0	L	" " " " " " " [in hor.	
1	L	A few patches of clouds about SE, S, and SW hor.; a few ≈ in N and E; mist	
0	L	A few patches in SE and S; ≈ in N a little above hor.; mist in hor.	
1	L	Patches of ≈≈ scattered here and there, moving E; mist in hor.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Readings of			Interval of Time in seconds between the simultaneous effect of discharge.
													Sign of Electricity + or −	Straws of Volta 1.	Straws of Volta 2.	
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Apr. 27th-Noon.	29.769	28.753	89°8	82°8	7°0	80°5	0.75	89°0	83°6	NNW	0.5					
1 p. m.	.730	.669	90.0	83.8	6.2	81.3	.78	89.8	83.7	WNW	0.4					
2 „	.708	.660	89.4	83.4	6.0	81.4	.78	89.2	83.8	NW b W	0.4					
3 „	.689	.659	89.4	83.0	6.4	80.9	.77	89.2	84.0	„	0.4					
4 „	.670	.676	88.5	82.0	6.5	79.8	.76	88.2	84.0	„	0.5					
5 „	.674	.701	87.2	81.2	6.0	79.1	.78	87.2	84.2	„	0.6					
6 „	.716	.736	85.8	81.0	4.8	79.4	.82	86.0	84.1	NW	0.1	None.			None.	
7 „	.723	.762	84.4	80.2	4.2	78.7	.84	84.8	83.9	„	0.3					
8 „	.734	.773	83.6	80.0	3.6	78.7	.86	83.8	83.7	„	0.4					
9 „	.763	.788	82.4	80.0	2.4	79.2	.90	83.1	83.5	„	0.2					
10 „	.778	.877	81.8	78.1	3.7	76.7	.85	82.7	83.4	NW b W	0.0		Pos.	1		1.10
11 „	.782	.864	81.4	78.4	3.0	77.3	.88	82.2	83.3	„	0.0		Pos.	2		1.00
Apr.28th-Midnight	.778	.816	81.2	79.4	1.8	78.7	.93	82.2	83.2	NW b W	0.0		Pos.	2		1.10
1 a. m.	.765	.816	80.9	79.0	1.9	78.0	.92	81.8	83.0	„	0.0		Pos.	4		0.41
2 „	.747	.832	80.2	78.0	2.2	77.2	.91	81.2	82.9	„	0.0		Pos.	2		0.29
3 „	.744	.856	79.0	77.0	2.0	76.2	.92	80.2	82.7	„	0.0		Pos.			
4 „	.737	.849	79.0	77.0	2.0	76.2	.92	80.2	82.5	„	0.0					
5 „	.746	.877	78.6	76.4	2.2	75.5	.91	80.2	82.4	„	0.0					
6 „	.763	.825	79.2	77.6	1.6	77.9	.93	79.8	82.3	„	0.0		Pos.	1		1.15
7 „	.780	.833	83.4	79.6	3.8	78.2	.85	80.8	83.3	„	0.2		Pos.	1		0.08
8 „	.802	.811	86.0	81.3	4.7	79.7	.82	84.7	83.3	NNW	0.1					
9 „	.808	.837	87.8	81.3	6.5	79.0	.76	86.2	82.4	NE	0.1					
10 „	.797	.889	89.2	80.2	9.0	76.9	.68	87.6	83.7	„	0.1					
11 „	.788	.779	91.3	83.0	8.3	80.2	.71	89.0	84.1	WNW	0.2	None.			None.	
Noon.	.768	.713	91.4	84.0	7.4	81.6	.74	90.2	84.3	NW b W	0.2					
1 p. m.	.743	.641	90.5	84.8	5.7	83.0	.80	90.6	84.3	NW	0.4					
2 „	.709	.677	90.0	83.2	6.8	81.0	.76	90.2	84.5	NW b N	0.6					
3 „	.690	.710	89.8	82.0	7.8	79.3	.72	89.8	84.7	„	1.0					
4 „	.677	.690	89.2	81.8	7.4	79.3	.73	88.8	84.7	„	0.8					
5 „	.680	.727	87.2	80.7	6.5	78.4	.76	87.0	84.7	„	0.8					
6 „	.703	.742	85.2	80.4	4.8	78.7	.81	85.6	84.4	„	0.6					
7 „	.714	.759	84.2	80.0	4.2	78.5	.84	84.6	84.2	„	0.6					
8 „	.753	.796	84.0	80.0	4.0	78.6	.84	84.4	84.1	S b W	0.2					
9 „	.791	.868	83.3	79.0	4.3	77.4	.83	84.0	84.0	S	0.1					
10 „	.789	.839	82.8	79.5	3.3	78.3	.87	83.5	83.9	WSW	0.0					
11 „	.770	.786	82.5	80.3	2.2	79.4	.91	83.0	83.7	W b N	0.2					
Apr.29th-Midnight	.756	.788	81.5	79.6	1.9	78.9	.92	82.1	83.5	NW b W	0.2					
1 a. m.	.738	.799	80.7	78.7	2.0	78.0	.92	81.4	83.4	NW	0.2					
2 „	.722	.793	80.4	78.4	2.0	77.6	.92	81.2	83.2	„	0.0					
3 „	.715	.799	80.0	78.2	1.8	77.5	.92	80.6	83.0	„	0.0					
4 „	.721	.825	79.0	77.2	1.8	76.5	.92	80.0	82.8	„	0.0					
5 „	.730	.853	78.6	76.6	2.0	75.8	.92	79.6	82.6	„	0.0					
6 „	.743	.868	78.8	76.6	2.2	75.8	.91	79.8	82.5	„	0.0					
7 „	.772	.884	82.6	78.0	4.6	76.2	.82	83.2	82.7	„	0.0					
8 „	.799	.945	86.0	77.6	8.4	74.3	.69	85.9	83.0	NW b N	0.1					
9 „	.782	.856	88.8	80.5	8.3	77.5	.70	88.1	83.5	„	0.1					
10 „	.783	.823	88.8	81.3	7.5	78.7	.73	88.2	83.6	„	0.1					
11 „	.775	.773	89.0	82.3	6.7	80.0	.76	88.4	83.8	„	0.3	None.	None.	None.	None.	None.
Noon.	.751	.762	89.4	82.1	7.3	79.6	.74	88.9	84.0	„	0.4					
1 p. m.	.718	.679	90.2	83.4	6.8	81.2	.76	89.4	84.0	„	0.4					
2 „	.676	.651	89.8	83.0	6.8	80.7	.76	89.8	84.4	„	0.4					
3 „	.659	.680	89.9	82.0	7.9	79.8	.72	90.2	84.5	„	0.5					
4 „	.640	.606	89.0	83.0	6.0	81.0	.78	89.2	84.7	„	0.4					
5 „	.642	.624	87.2	82.2	5.0	80.5	.81	87.2	84.6	„	0.4					
6 „	.653	.622	85.2	82.0	3.2	80.9	.87	85.6	84.5	„	0.2					
7 „	.663	.673	84.2	80.8	3.4	79.6	.87	84.5	84.3	„	0.6					
8 „	.677	.703	84.0	80.4	3.6	79.1	.86	84.4	84.2	NNW	0.5					
9 „	.687	.687	84.0	81.0	3.0	80.0	.88	84.2	84.1	„	0.4					
10 „	.704	.704	83.6	80.9	2.7	80.0	.89	84.0	84.0	„	0.1					
11 „	.706	.697	83.2	81.0	2.2	80.2	.91	83.6	84.0	„	0.0					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩ cumulo-strati; and ≀⌣ nimbi.	
1	L	A few patches of ≀≀ scattered here and there; mist in hor.	
1	N	A few clouds along E hor.	
1	N	" " "	
1	N	" " "	
1	N	Electrical clouds along E hor.	
1	L	" " "	
1	L	" " " [moving W.	
1	L	Electrical ∩ along E hor.; a few patches of ≀≀ in N and W and around hor.,	
1	L	A few patches of clouds in W above hor.	
0	C	Clear, except in hor.	
0	C	" "	
0	C	" "	
0	C	Clear, except in hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°1 and 83°2. On the 28th at noon the Temperature of Free Air was only 1°4 higher than the Normal Mean for that hour; at 1 P. M. the Temperature of Evaporation was greatest, being 4°3 higher than the Normal Mean. At the same hour calculated Dew-Point was 83°0 greatest during the month.
0	N	A few pieces of clouds around hor.	
0	N	" " " ".	
0	N	Clear.	
0	N	"	
1	L	A few pieces of clouds along E hor.	
1	L	Patches of ≀≀ about hor. from E to W; mist in hor., from NW to S.	
0	L	A few patches of clouds in W and N; mist in hor. from NW to S.	
1	L	≀≀ scattered about hor. from W to E; light mist in hor.	
2	L	≀≀ in NW and W; ≀ scattered about hor. from NE to SE; mist in hor.	
1	C	≀≀ above NW, N, and NE hor.; ≀ about E and SE hor.	
2	C	≀≀ scattered about hor., in NE.	
2	C	≀≀ in hor. from N to SSW; ≀ above NW hor.	
1	N	∩ along E hor.	
1	N	" "	
1	N	" "	
1	N	∩ along E hor.; ⌣ in SE above hor.	
1	C	∩ along E hor.; ≀ scattered about W hor.	
5	L	∩ and ≀≀ in E hem.; ≀ scattered in W hem.	
5	L	≀ and ≀≀ scattered about.	
6	L	≀≀ scattered about, moving E.	
3	C	Dense ≀≀ scattered about hor. and in W of zth.	
1	C	Patches of ≀≀ scattered here and there.	
1	C	Dense ≀≀ scattered along E hor.	
0	C	A few patches of clouds about E hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°19 and 82°25.
1	N	Patches of fleecy clouds scattered along E hor.	
1	N	" " " " "	
1	N	" " " " "	
1	N	" " " " "	
1	L	" " " " "	
0	L	A few pieces of clouds in NE; light mist in hor.	
0	L	Light mist in hor.	
0	L	" "	
1	C	⌣ scattered above hor. from N to SW.	
3	C	≀ scattered about.	
6	C	⌣ in NE; ≀ scattered about.	
5	C	≀ scattered about.	
8	N	∩ along E hor.; ≀ scattered throughout; mist in hor.	
8	N	" " " " " "	
8	N	" " " " " "	
8	N	≀ scattered throughout.	
8	N	Densely clouded with ≀.	
4	N	∩ along E hor.; ≀ scattered about.	
2	L	≀≀ scattered about, moving W; lightning in SE observed at 7h. 35m.	
1	L	A few patches of ≀≀ scattered here and there.	
1	C	Small patches of ≀≀ scattered here and there, moving W.	
1	C	≀≀ scattered about.	
1	C	" "	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Apr. 30th-Midnight	29.700	28.647	83°2	82°0	1°2	81°6	0.95	83°6	84°0	NNW	0.1					
1 a. m.	.690	.675	82.6	81.0	1.6	80.4	.93	83.3	83.9	,,	0.2					
2 ,,	.668	.685	82.4	80.2	2.2	79.4	.91	83.0	83.8	,,	0.1					
3 ,,	.662	.676	81.4	80.0	1.4	79.5	.94	82.2	83.5	,,	0.1					
4 ,,	.676	.808	80.4	77.0	3.4	75.7	.86	81.2	83.3	,,	0.1					
5 ,,	.680	.875	80.2	75.2	5.0	73.2	.80	81.2	83.2	,,	0.0					
6 ,,	.690	.878	81.0	75.6	5.4	73.4	.79	82.0	83.0	,,	0.1					
7 ,,	.723	.816	85.0	76.6	8.4	73.2	.70	85.2	83.3	,,	0.0		Pos.	4		0.20
8 ,,	.741	.870	88.0	79.0	9.0	75.6	.68	88.0	83.7	,,	0.0					
9 ,,	.733	.748	89.4	82.0	7.4	79.5	.73	88.8	84.0	,,	0.2					
10 ,,	.729	.655	89.6	84.0	5.6	82.2	.80	88.9	84.1	NW b N	0.1					
11 ,,	.706	.665	90.0	83.4	6.6	81.2	.76	89.5	84.3	NW	0.3					
Noon.	.668	.594	90.1	84.1	6.0	82.2	.78	89.8	84.6	,,	0.2	None.			None.	
1 p. m.	.638	.565	91.4	84.4	7.0	82.2	.75	90.8	84.8	,,	0.4					
2 ,,	.618	.568	91.0	83.8	7.2	81.6	.74	90.6	85.0	,,	0.5					
3 ,,	.606	.570	89.6	83.2	6.4	81.1	.77	89.4	85.0	,,	0.3					
4 ,,	.602	.542	89.2	83.6	5.6	80.0	.80	89.0	85.0	,,	0.2					
5 ,,	.619	.576	88.2	83.0	5.2	81.3	.81	88.4	85.2	W	0.1					
6 ,,	.646	.657	85.8	81.2	4.6	79.3	.82	86.2	84.9	W b N	0.1					
7 ,,	.653	.673	84.2	80.6	3.6	79.3	.86	84.8	84.7	,,	0.1					
8 ,,	.699	.708	83.6	80.7	2.9	79.9	.88	84.3	84.5	S	0.1					
9 ,,	.705	.737	83.0	80.0	3.0	78.9	.88	83.9	84.4	,,	0.0					
10 ,,	.713	.817	82.5	78.4	4.1	76.5	.84	83.4	84.2	,,	0.0					
11 ,,	.709	.740	82.2	79.8	2.4	79.0	.90	83.1	84.1	,,	0.0					
May 1st-Midnight	.684	.733	82.2	79.4	2.8	78.4	.89	83.2	84.0	W b S	0.1					
1 a. m.	.671	.734	82.4	79.1	3.3	77.9	.87	83.0	83.9	WNW	0.1					
2 ,,	.651	.724	82.2	78.8	3.4	77.6	.86	82.8	83.8	NW b W	0.1					
3 ,,	.650	.725	81.6	78.6	3.0	77.5	.88	82.2	83.6	NW	0.0					
4 ,,	.650	.681	81.4	79.6	1.8	79.0	.93	82.2	83.5	,,	0.0					
5 ,,	.660	.685	81.6	79.8	1.8	79.2	.93	82.6	83.5	NNE	0.0					
6 ,,	.690	.776	81.4	78.3	3.1	77.1	.87	82.6	83.4	NE b N	0.0					
7 ,,	.713	.737	84.6	80.6	4.0	79.2	.84	85.2	83.6	NE b E	0.0					
8 ,,	.738	.771	87.0	81.0	6.0	78.9	.78	87.0	83.9	,,	0.0					
9 ,,	.741	.727	89.1	82.6	6.5	80.4	.76	89.0	84.2	NE	0.1					
10 ,,	.732	.660	89.8	84.0	5.8	82.2	.79	89.3	84.5	NNW	0.1					
11 ,,	.717	.651	90.4	84.0	6.4	82.0	.77	90.2	84.7	NW	0.2					
Noon.	.688	.673	90.7	83.0	7.7	80.4	.73	90.2	84.8	,,	0.4	None.	None.	None.	None.	None.
1 p. m.	.664	.576	90.8	84.6	6.2	82.7	.78	90.8	85.0	,,	0.3					
2 ,,	.637	.574	90.6	84.0	6.6	81.9	.77	90.8	85.2	,,	0.2					
3 ,,	.615	.561	90.6	83.8	6.8	81.6	.76	90.3	85.3	,,	0.3					
4 ,,	.606	.536	90.0	84.0	6.0	82.1	.78	90.2	85.4	,,	0.2					
5 ,,	.620	.598	88.4	82.6	5.8	80.6	.79	88.6	85.4	,,	0.2					
6 ,,	.639	.624	86.6	82.0	4.6	80.4	.83	87.0	85.3	,,	0.3					
7 ,,	.657	.692	85.6	80.6	5.0	78.8	.81	86.2	85.1	NW b N	0.2					
8 ,,	.680	.680	84.8	81.2	3.6	80.0	.86	85.4	84.9	,,	0.1					
9 ,,	.710	.708	83.8	81.0	2.8	80.0	.89	84.8	84.8	,,	0.1					
10 ,,	.715	.669	83.8	82.0	1.8	81.4	.93	84.8	84.7	,,	0.1					
11 ,,	.706	.669	83.4	81.7	1.7	81.1	.93	84.1	84.6	,,	0.1					
May 2nd-Midnight	.695	.684	83.0	81.0	2.0	80.3	.92	84.1	84.5	NW b N	0.0					
1 a. m.	.691	.676	82.6	81.0	1.6	80.4	.93	83.8	84.3	,,	0.0					
2 ,,	.703	.652	83.4	82.0	1.4	81.5	.94	84.4	84.4	S	0.5					
3 ,,	.697	.650	83.0	81.8	1.2	81.4	.95	84.0	84.3	,,	2.0					
4 ,,	.714	.648	82.8	82.2	0.6	82.0	.98	83.8	84.2	,,	2.5					
5 ,,	.719	.671	82.8	81.8	1.0	81.4	.96	83.6	84.2	,,	2.0					
6 ,,	.735	.660	83.2	82.5	0.7	82.3	.97	83.9	84.2	,,	1.0	None.	None.	None.	None.	None.
7 ,,	.758	.667	83.8	83.0	0.8	82.7	.97	84.7	84.3	,,	1.5					
8 ,,	.777	.689	86.2	83.5	2.7	82.6	.90	87.2	84.5	,,	1.0					
9 ,,	.780	.672	88.2	84.4	3.8	83.2	.86	88.9	84.8	,,	1.0					
10 ,,	.779	.680	88.7	84.3	4.4	83.0	.84	90.0	85.0	,,	1.0					
11 ,,	.775	.650	90.6	85.3	5.3	83.7	.81	91.0	85.3	,,	0.4					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩ cumulo-strati; and ≀≀ nimbi.	
1	C	Small patches of ≀≀ scattered about, moving E; ≀ W of zth.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°3 and 83°3. On this day the Mean Temperature of deduced Dew-point was 79°1, the greatest in the month; the morning maximum of Barometer occured a little earlier than usual.
2	C	≀≀ scattered above E hor.; ≀ around hor.	
3	N	≀ and ≀≀ scattered about, the latter moving SE.	
5	N	" " " " "	
6	N	" " " " "	
7	L	" " " " "	
7	L	≀≀ scattered about hor., moving ENE; ≀ scattered throughout.	
8	L	≀≀ scattered about hor., moving NW; ≀ scattered throughout.	
6	L	≀ scattered about.	
6	L	" "	
5	C	" "	
3	C	" "	
3	C	∩ along E hor.; ≀ scattered about, moving E.	
4	N	" " " " "	
7	N	" " " " "	
7	N	" " " " "	
8	N	" " " " "	
8	L	∩ in E and SE hor.; ≀≀ in SE; ≀ scattered throughout.	
8	L	≀≀ scattered from E to SW hor.; ≀ scattered throughout.	
6	L	A few patches of ≀≀ in W above hor.; ≀ scattered throughout.	
4	C	≀≀ scattered about; ≀ in W of zth.	
3	C	≀≀ scattered about.	
1	C	≀ scattered about hor. from SW to NW.	
1	C	Light ≀ around hor., except in NE and N.	
2	C	Light ≀ scattered about hor.; ≀≀ about zth.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°3 and 82°4. On the 1st at 4 P. M. the Standard Barometer was lower than the Normal Mean by 0·101. It appears that the Readings of the Wet Bulb Thermometer from 1st to 9th were rather higher than they ought to be.
8	N	Overcast with ≀ and ≀≀ both moving SE.	
4	N	≀ and ≀≀ scattered about, moving SE.	
5	N	" " " "	
8	N	Overcast with ≀ and ≀≀.	
7	L	Densely clouded with ≀≀, moving NW.	
7	L	" " " "	
3	L	Light ≀ above S and SW hor.; ≀≀ scattered from W to E hor.	
5	L	≀ scattered about.	
3	C	" "	
3	C	" "	
6	C	" "	
5	C	" "	
7	N	" "	
7	N	" "	
7	N	" "	
7	N	" "	
7	L	" "	
4	L	" "	
2	L	≀ scattered about hor.	
2	L	≀ scattered around hor.; a few patches of ≀≀ in NE.	
2	C	≀≀ scattered in N, NE, E, and a few W of zth.; ≀ around hor.	
4	C	≀≀ scattered about zth.; ≀ in S and SW hor.	
3	C	≀≀ scattered here and there, a few streeks of ≀ in S.	
7	C	Densely overcast with ≀≀.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°5 and 83°5. At 11 A. M. the Wet Bulb Thermometer was 5°0 higher than the Normal Mean for that hour; Daily Range of Air Thermometer was 8°6, the least during the month. At 2 A. M. the Barometer rose a little instead of falling. On the 3rd light drops of rain fell in the morning.
8	N	Overcast in two strata with ≀≀ and light ≀≀. [wind.	
8	N	Overcast in two strata, the lower stratum of ≀≀ moving S; smart gusts of	
3	N	≀ and light ≀≀. scattered about, the latter moving S., smart gusts of wind.	
4	N	≀ and ≀≀ scattered about; smart gusts of wind.	
4	L	≀ and ≀≀ scattered about hor., moderate gusts of wind.	
7	L	≀≀ scattered in SW, W, N, and E; ≀ scattered throughout.	
8	L	Densely clouded with ≀, a few scud in E, moving N.	
7	L	≀≀ above SE, E, and hor., otherwise clouded with ≀.	
6	C	Densely clouded with ≀.	
7	C	⌣ along E hor; ≀ scattered throughout.	
7	C	" " " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
May 2nd–Noon.	29.753	28.661	90°6	84°6	6°0	82°8	0.79	90°7	85°5	S	0.3					
1 p. m.	.719	.606	91.2	85.2	6.0	83.4	.79	90.8	85.5	SSW	0.4					
2 „	.701	.633	90.2	84.0	6.2	82.0	.78	90.0	85.7	„	0.2					
3 „	.672	.613	90.2	83.8	6.4	81.8	.77	89.6	85.8	SW	0.1					
4 „	.661	.595	90.4	84.0	6.4	82.0	.77	90.3	85.8	„	0.1					
5 „	.667	.598	88.4	83.6	4.8	82.1	.82	88.4	85.8	„	0.2					
6 „	.682	.629	85.6	82.6	3.0	81.6	.88	86.2	85.6	SW b W	0.1	None.	None.	None.	None.	None.
7 „	.700	.649	84.2	82.2	2.0	81.5	.92	85.0	85.3	SW	0.1					
8 „	.726	.678	83.6	82.0	1.6	81.4	.93	84.7	85.2	„	0.1					
9 „	.745	.670	83.6	82.6	1.0	82.3	.96	84.6	85.1	SSW	0.2					
10 „	.757	.704	83.2	82.0	1.2	81.6	.95	84.2	85.0	„	0.8					
11 „	.748	.702	83.0	81.8	1.2	81.4	.95	83.8	84.8	„	0.5					
May 4th–Midnight	.729	.685	83.2	81.8	1.4	81.3	.94	84.0	84.7	SSW	0.2					
1 a. m.	.709	.669	82.8	81.6	1.2	81.2	.95	83.6	84.7	„	0.1					
2 „	.709	.675	82.5	81.4	1.1	81.0	.96	83.3	84.5	SW b S	0.1					
3 „	.700	.673	82.4	81.2	1.2	80.8	.95	83.3	84.4	„	0.1					
4 „	.708	.771	82.0	79.0	3.0	77.9	.88	83.1	84.4	„	0.2					
5 „	.699	.720	82.0	80.0	2.0	79.3	.92	82.8	84.2	„	0.0					
6 „	.715	.736	82.0	80.0	2.0	79.3	.92	83.0	84.0	„	0.0					
7 „	.738	.757	85.0	80.8	4.2	79.4	.83	85.2	84.2	SW	0.0					
8 „	.746	.746	85.6	81.4	4.2	80.0	.83	86.0	84.4	„	0.0					
9 „	.755	.731	87.0	82.3	4.7	80.7	.82	87.0	84.6	„	0.0					
10 „	.749	.697	89.0	83.4	5.6	81.6	.80	88.8	84.8	„	0.0					
11 „	.724	.645	90.5	84.3	6.2	82.4	.78	89.4	85.1	WSW	0.1	None.	None.	None.	None.	None.
Noon.	.709	.629	89.9	84.2	5.7	82.4	.79	89.4	85.2	WNW	0.0					
1 p. m.	.677	.609	90.2	84.0	6.2	82.0	.78	90.1	85.3	W b N	0.1					
2 „	.664	.605	91.0	84.0	7.0	81.8	.75	90.7	85.5	WNW	0.0					
3 „	.638	.550	91.3	84.7	6.6	82.6	.77	91.1	85.7	„	0.2					
4 „	.635	.554	91.6	84.6	7.0	82.4	.75	91.1	85.8	W b N	0.2					
5 „	.657	.538	89.8	85.0	4.8	83.5	.82	89.8	85.9	WSW	0.1					
6 „	.664	.567	87.5	84.0	3.5	82.9	.87	87.8	85.6	„	0.1					
7 „	.694	.616	85.8	83.2	2.6	82.3	.90	86.2	85.5	SW b W	0.0					
8 „	.712	.655	85.2	82.6	2.6	81.7	.90	85.8	85.4	SW	0.0					
9 „	.743	.661	84.6	83.0	1.6	82.5	.94	85.4	85.3	„	0.1					
10 „	.763	.690	84.6	82.8	1.8	82.2	.93	85.4	85.2	SSW	0.0					
11 „	.746	.688	84.4	82.4	2.0	81.7	.92	85.2	85.2	„	0.0					
May 5th–Midnight	.731	.660	84.0	82.6	1.4	82.2	.94	84.7	85.1	SSW	0.2					
1 a. m.	.746	.664	83.8	82.8	1.0	82.5	.96	84.7	85.0	S b W	0.2					
2 „	.719	.644	83.6	82.6	1.0	82.3	.96	84.5	85.0	„	0.2					
3 „	.725	.712	83.3	81.1	2.2	80.4	.91	84.2	84.8	„	0.1					
4 „	.747	.714	83.4	81.6	1.8	81.0	.93	84.2	84.7	S	0.2					
5 „	.747	.732	83.0	81.1	1.9	80.4	.92	83.8	84.6	SE	0.3					
6 „	.752	.723	82.2	81.2	1.0	80.9	.96	83.2	84.5	„	0.0					
7 „	.772	.724	82.8	81.8	1.0	81.4	.96	84.0	84.4	„	0.0					
8 „	.797	.731	84.4	82.6	1.8	82.0	.93	85.2	84.5	SSE	0.1					
9 „	.817	.790	85.5	82.0	3.5	80.8	.86	86.6	84.7	S b W	0.1					
10 „	.815	.737	87.6	83.6	4.0	82.3	.85	87.9	84.9	„	0.2	Immeasureable.				
11 „	.810	.702	90.8	85.0	5.8	83.2	.79	90.2	85.3	„	0.1					
Noon.	.795	.714	91.6	84.6	7.0	82.4	.75	90.8	85.5	„	0.2		None.	None.	None.	None.
1 p. m.	.770	.655	91.9	85.4	6.5	83.4	.77	91.1	85.7	SW b S	0.1					
2 „	.731	.625	92.3	85.3	7.0	83.2	.75	91.4	85.9	„	0.1					
3 „	.702	.615	92.3	84.9	7.4	82.6	.74	91.3	86.0	„	0.1					
4 „	.702	.614	91.8	84.8	7.0	82.6	.79	91.0	86.1	„	0.1					
5 „	.705	.633	89.8	84.0	5.8	82.2	.79	89.6	86.0	WSW	0.1					
6 „	.727	.657	87.4	83.4	4.0	82.1	.85	87.8	85.9	„	0.1					
7 „	.742	.671	85.6	83.0	2.6	82.1	.90	86.0	85.6	„	0.1					
8 „	.764	.713	84.0	82.4	2.6	81.5	.90	85.8	85.5	„	0.1					
9 „	.773	.726	84.6	82.2	2.4	81.4	.90	85.2	85.4	„	0.0					
10 „	.776	.732	84.0	82.0	2.0	81.3	.92	84.8	85.3	„	0.1					
11 „	.771	.724	83.7	82.0	1.7	81.4	.93	84.4	85.2	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤≤ cirro-cumuli; ⌒ cumuli; ⌒≤ cirro-strati; ⌒⌒ cumulo-strati; and ≤≤≤ nimbi.	
6	C	⌒≤ along E hor; ≤ scattered throughout.	
5	N	≤≤ in E and SE, hor., ≤ scattered about.	
7	N	⌒ along E hor., ≤ scattered throughout.	
7	N	" " " " "	
4	N	⌒ along E hor., ≤ scattered about.	
3	L	Light ≤≤ around hor., moving NE; ≤ scattered in SE, E, and NE.	
3	L	Light ≤≤ in N and NE, hor.; ≤ scattered about.	
4	L	≤≤ in NE, E, and SE, hor.; ≤ scattered around hor., about zth.	
8	L	Nearly overcast with ≤≤ moving W.	
7	L	Light ≤≤ and ≤≤ scattered throughout, the former moving N and the latter W.	
6	L	Patches of ≤≤ to SW and W of zth; ≤≤ scattered, moving NNE.	
6	L	Densely clouded with ≤≤ and ≤≤; moving respectively NNE and W.	
4	L	≤≤ and ≤≤ scattered about, both moving N; lightning in SE for every 3m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°6 and 83°5. At 5 A. M. the Barometer fell a little instead of rising.
1	C	Light ≤≤ scattered around hor. and W of zth.; lightning in E and S for every	
3	C	Light ≤≤ scattered about, moving N; continuous lightning in SE. [half minute.	
2	C	" " " " " " "	
2	C	≤≤ in S hor.; ≤≤ scattered about, moving NNE.	
5	N	≤≤ scattered about.	
7	N	" "	
4	N	" "	
7	N	" "	
8	L	" "	
4	L	" "	
5	L	≤≤ scattered about; a few ≤ in NE and E hor.	
7	L	Densely clouded with ≤≤.	
7	C	" " "	
6	C	⌒≤ above E hor.; ≤ around hor.; ≤≤ scattered about, moving NE.	
4	C	" " " " " " " " E.	
3	C	⌒≤ in E hor.; ≤ around hor.; patches of ≤≤ scattered in S and SW.	
4	N	≤≤ scattered about, moving ESE. [NE and the latter W.	
6	N	⌒ in NE hor.; ⌒≤ along E hor.; ≤≤ and ≤ scattered about, the former moving	
6	N	≤≤ scattered throughout, except in SW and W.	
8	N	Densely clouded with ≤ and ≤≤; a lunar-halo.	
7	L	" " " " "	
8	L	" " " " "	
8	L	≤≤ around hor.; ≤ scattered throughout; a lunar-halo.	
8	L	Overcast with ≤≤ and ≤≤, both moving N; continuous lightning in SE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°8 and 83°6. On the 5th daily march of Barometer from midnight to 4 A. M. was irregular, and its morning maximum occcurred a little earlier; at 1 P. M. the Reading of Wet Bulb Thermometer was 85°4, the highest during the month.
8	C	" " " " " " " "	
8	C	" " " " " " " "	
8	C	Overcast with ≤≤, moving NE; thunder in E heard at 3h. 40m. [visible.	
7	C	Densely clouded with ≤≤, moving NNW; lightning in NE; a few stars dimly	
8	N	Densely clouded with ≤≤ and ≤≤; continued thunder & lightning in NE; light rain	
8	N	≤≤ and ≤≤ scattered throughout, the former moving NW. [for 6m.	
6	N	≤≤ around hor; ≤≤ scattered about.	
8	N	≤≤ and ≤≤ scattered throughout.	
8	L	" " " "	
7	L	Light ≤≤ along E hor.; ≤≤ scattered throught.	
5	L	" " " " " "	
5	L	≤≤ scattered throughout.	
4	C	⌒≤ about SE hor.; ≤≤ scattered about, moving NE.	
2	C	⌒≤ around hor.; ≤ above S hor., patches of ≤≤ scattered about.	
2	C	⌒≤ around hor.; ≤≤ scattered about.	
3	C	A few ≤ to the NE and E of zth.; ≤≤ scattered about, moving ENE.	
6	N	≤≤ and ≤ scattered about, the former moving E.	
8	N	Densely clouded with ≤ and ≤≤ the latter moving E.	
7	N	Light ≤≤ in E hem.; ≤ scattered about; a lunar-halo.	
8	N	" " " " " "	
8	L	" " " " " "	
7	L	Densely clouded; a lunar-halo.	
5	L	≤≤ scattered about, moving E.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-Point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
May 6th-Midnight	29.759	28.708	83°4	82°0	1°4	81°5	0.94	84°0	85°1	W b S	0.1					
1 a. m.	.748	.715	83.0	81.5	1.5	80.7	.94	83.8	85.0	WNW	0.1					
2 „	.731	.698	82.6	81.4	1.2	80.7	.95	83.4	84.8	„	0.0					
3 „	.727	.711	82.5	81.0	1.5	80.5	.94	83.4	84.7	„	0.1					
4 „	.730	.743	81.3	80.0	1.3	79.5	.95	82.5	84.5	„	0.0					
5 „	.739	.747	80.8	80.0	0.8	79.7	.97	82.1	84.3	NW b W	0.0					
6 „	.764	.763	81.6	80.4	1.2	80.0	.95	82.4	84.2	„	0.0					
7 „	.784	.746	84.5	82.0	2.5	81.1	.90	85.2	84.4	NW	0.0					
8 „	.795	.739	87.8	83.2	4.6	81.7	.83	88.2	84.7	„	0.1					
9 „	.805	.767	87.0	82.6	4.4	81.1	.83	86.8	84.9	„	0.0		Pos.	1		0.05
10 „	.807	.773	89.0	83.0	6.0	81.0	.78	88.4	85.1	„	0.2					
11 „	.800	.777	90.0	83.0	7.0	80.7	.75	89.2	85.3	„	0.2					
Noon.	.791	.727	91.4	84.2	7.2	81.9	.75	91.0	85.5	W b N	0.3	None.			None.	
1 p. m.	.760	.674	91.4	84.8	6.6	82.6	.77	91.0	85.7	WNW	0.2					
2 „	.736	.673	90.6	84.0	6.6	81.9	.77	90.2	85.7	NW b W	0.2					
3 „	.715	.633	89.7	84.2	5.5	82.5	.80	89.7	85.7	NW	0.6					
4 „	.704	.621	88.8	84.0	4.8	82.5	.82	88.2	85.6	„	0.7					
5 „	.708	.654	87.2	83.0	4.2	81.6	.84	87.2	85.5	„	0.5					
6 „	.722	.658	85.4	82.8	2.6	81.9	.90	86.0	85.3	„	0.3					
7 „	.733	.673	84.2	82.4	1.8	81.8	.93	84.6	85.2	NW b N	0.4					
8 „	.753	.733	83.8	81.4	2.4	80.6	.90	84.2	85.2	NNW	0.3					
9 „	.766	.752	83.6	81.2	2.4	80.4	.90	84.2	85.1	„	0.2					
10 „	.770	.789	83.4	80.4	3.0	79.3	.88	84.0	85.0	N b W	0.1					
11 „	.764	.757	83.4	81.0	2.4	80.2	.90	84.0	84.9	„	0.2					
May 7th-Midnight	.751	.733	83.2	81.2	2.0	80.5	.92	83.6	84.8	NNW	0.2					
1 a. m.	.748	.726	82.8	81.2	1.6	80.6	.93	83.3	84.7	„	0.2					
2 „	.737	.722	82.6	81.0	1.6	80.4	.93	83.3	84.5	„	0.3					
3 „	.742	.722	82.2	81.0	1.2	80.6	.95	83.0	84.4	N b E	0.0					
4 „	.741	.740	81.5	80.5	1.0	80.0	.96	82.2	84.3	N	0.1					
5 „	.744	.731	81.2	80.6	0.6	80.4	.98	82.1	84.1	„	0.0					
6 „	.768	.761	81.0	80.4	0.6	80.2	.98	82.0	83.9	„	0.1					
7 „	.784	.757	82.4	81.2	1.2	80.8	.95	83.2	84.0	N b E	0.1					
8 „	.807	.737	86.6	83.2	3.4	82.1	.87	87.0	84.4	N b W	0.1					
9 „	.820	.754	87.8	83.4	4.4	82.0	.84	87.8	84.7	NNW	0.0					
10 „	.841	.760	88.2	83.8	4.4	82.4	.84	88.2	84.9	„	0.1					
11 „	.832	.730	89.2	84.5	4.7	83.0	.83	89.4	85.1	W	0.3					
Noon.	.811	.705	90.2	84.8	5.4	83.2	.80	89.8	85.3	WNW	0.2	None.	None.	None.	None.	None.
1 p. m.	.785	.706	89.2	84.0	5.2	82.4	.81	88.8	85.5	NW	0.1					
2 „	.757	.673	89.2	84.1	5.1	82.5	.81	88.8	85.5	„	0.1					
3 „	.740	.626	89.0	84.7	4.3	83.4	.84	89.0	85.5	„	0.2					
4 „	.724	.622	88.8	84.4	4.4	83.0	.84	88.8	85.5	„	0.1					
5 „	.720	.638	87.2	83.6	3.6	82.5	.86	87.2	85.3	NW b N	0.3					
6 „	.724	.655	85.0	82.8	2.2	82.1	.91	85.8	85.3	„	0.2					
7 „	.719	.657	84.0	82.4	1.6	81.9	.93	84.4	85.1	„	0.1					
8 „	.734	.674	83.4	82.2	1.2	81.8	.95	84.1	85.0	„	0.1					
9 „	.737	.713	83.4	81.4	2.0	80.7	.92	84.0	85.0	NNW	0.4					
10 „	.752	.703	83.5	82.0	1.5	81.5	.94	84.0	84.8	„	0.8					
11 „	.748	.683	83.3	82.3	1.0	82.0	.96	83.9	84.7	„	0.6					
May 8th-Midnight	.746	.706	82.8	81.6	1.2	81.2	.95	83.5	84.7	NNW	0.5					
1 a. m.	.735	.720	82.6	81.0	1.6	80.4	.93	83.2	84.5	„	0.6					
2 „	.719	.718	82.4	80.8	1.6	80.8	.93	83.2	84.4	N b W	0.7					
3 „	.718	.737	82.2	80.1	2.1	79.3	.91	83.0	84.3	„	0.4					
4 „	.718	.736	81.7	80.0	1.7	79.3	.93	82.3	84.3	N	0.0					
5 „	.721	.727	80.6	80.0	0.6	79.8	.98	82.0	83.9	„	0.0					
6 „	.740	.745	80.5	80.0	0.5	79.8	.98	82.0	83.8	„	0.0					
7 „	.769	.760	84.0	81.2	2.8	80.2	.89	84.6	84.0	„	0.0					
8 „	.787	.753	87.3	82.6	4.7	81.0	.82	87.2	84.4	ESE	0.0					
9 „	.780	.739	88.4	83.0	5.4	81.2	.80	87.6	84.6	W	0.1					
10 „	.772	.744	88.3	82.7	5.6	80.8	.79	87.8	84.7	„	0.1					
11 „	.759	.715	89.8	83.4	6.4	81.3	.77	88.8	84.9	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩∩ cumulo-strati; and ≋ nimbi.	
6	L	≀≀ scattered about, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°8 and 83°6.
2	C	" " " "	
3	C	≀≀ scattered about, moving E; a few ≀ to NE of zth.	
4	C	" " " " " "	
1	C	≀≀ in E and W hor., otherwise clear.	
3	N	≀≀ scattered about, moving E.	
2	N	≀≀ scattered around hor.	
2	N	≀≀ around hor., moving E; mist along E hor.	
3	N	≀≀ scattered about, moving E.	
3	L	≀≀ scattered about hor., from N to S and in SW of zth.	
1	L	≀≀ scattered around hor.	
1	L	" " "	
1	L	≀≀ around hor., except in S.	
1	C	A few clouds scattered here and there, moving E.	
1	C	A few clouds in NE, E, SE, W, and SW hor.	
2	C	≀≀ scattered along E and SW of zth., moving E.	
6	C	⌣ around hor.; ≀≀ to W of zth.; ≀ scattered throughout.	
7	N	≀≀ around hor.; ≀ scattered throughout.	
6	N		
5	N	" " " " "	
4	N	≀ scattered about.	
5	L	" "	
7	L	≀ scattered about; a lunar-halo.	
8	L	Densely clouded with ≀; a lunar-halo.	
		" " " "	
7	L	Densely clouded with ≀; a lunar-halo.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°9 and 83°7. At 10 A. M. the Reading of Barometer was about 0.50 higher than the Normal Mean.
5	C	≀≀ scattered about, moving SSE; ≀ about W and NW hor.	
5	C	≀≀ scattered about, moving SE.	
3	C	⌣ along E; ≀≀ scattered about, moving S.	
2	C	≀ and a few patches of clouds around hor.	
4	N	≀≀ along E hor.; light ≋ scattered about, moving SE.	
6	N	≀≀ and ≋ scattered about, the latter moving S.	
7	N	Densely clouded with ≀≀, moving S.	
4	N	Dense ≀≀ scattered about.	
7	L	Densely clouded with ≀≀ and ≋.	
8	L	" " " "	
7	L	Densely clouded with ≀≀ and ≋, both moving E.	
7	L	" " " " " "	
7	C	≀ in NE and E hor.; ≀≀ scattered about, moving E.	
7	C	" " " " " "	
7	C	Nearly overcast with ≀ and ≀≀, the latter moving E.	
5	C	≀ and ≀≀ scattered about, the latter moving SE.	
7	N	≀≀ scattered about, moving SE.	
4	N	" " " "	
3	N	Dense ≀ and ≀≀ scattered about.	
8	N	Densely clouded with ≀≀, moving S	
7	L	Densely clouded with ≀≀, moving E	
7	L	Densely clouded with ≀≀, moving W.	
8	L	Densely clouded with ≀≀, moving NW.	
7	L	≋ and ≀≀ scattered throughout, former moving SE.	Mean daily Temperatuae of Ground 20 and 60 inches below its surface 83°3 and 83°8. The Reading of Barometer at 4 P. M. was as low as 29.643, being about 0.50 lower than the Normal Mean; and its range was 0.144 the greatest in the month. From the 1st to 8th the Readings of Wet Bulb Thermometer were rather higher than they ought to be. The direction of Wind was circular.
6	C	" " " " " "	
7	C	" " " " " "	
6	C	⌣ in E; ≀≀ and ≋ scattered about, the latter moving S.	
2	C	≀ in E; patches of ≀≀ scattered here and there.	
2	N	Patches of ≀≀ around hor., otherwise clear.	
3	N	≋ scattered about, moving S.	
3	N	≋ scattered around hor., moving S.	
3	N	≋ scattered around hor., moving SE.	
7	L	≋ scattered along E hor., moving W; ≀ scattered throughout.	
6	L	≀ scattered about, whose motion was not apparent.	
4	L	" " " " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of Sensibleness to discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
May 8th-Noon.	29.732	28.659	90°6	84°2	6°4	82°2	0.77	89°8	85°2	NW	0.3					
1 p. m.	.717	.662	91.4	84.0	7.4	81.7	.74	90.5	85.5	W b N	0.3					
2 „	.688	.610	91.9	84.6	7.3	82.3	.75	91.2	85.6	W b S	0.3					
3 „	.656	.556	91.5	85.0	6.5	83.0	.77	90.7	85.7	W	0.2					
4 „	.643	.556	90.6	84.5	6.1	82.6	.78	90.2	85.8	W b S	0.2					
5 „	.652	.566	88.5	84.0	4.5	82.6	.83	88.2	85.7	W b N	0.2					
6 „	.662	.609	85.6	82.6	3.0	81.6	.88	85.8	85.5	WNW	0.2	None.	None.	None.	None.	None.
7 „	.676	.634	84.2	82.0	2.2	81.3	.91	84.3	85.3	„	0.2					
8 „	.704	.658	83.8	82.0	1.8	81.4	.93	84.2	85.2	NW b W	0.2					
9 „	.703	.662	83.4	81.8	1.6	81.2	.93	84.0	85.0	WNW	0.3					
10 „	.703	.685	83.2	81.2	2.0	80.5	.92	83.8	84.9	„	0.2					
11 „	.703	.690	82.8	81.0	1.8	80.4	.93	83.7	84.8	W	0.1					
May 9th-Midnight	.700	.695	82.8	80.8	2.0	80.1	.92	83.6	84.7	W	0.2					
1 a. m.	.696	.723	82.5	80.0	2.5	79.1	.90	83.2	84.6	„	0.1					
2 „	.682	.707	82.4	80.0	2.4	79.2	.90	83.2	84.4	„	0.0					
3 „	.674	.695	82.0	80.0	2.0	79.3	.92	83.0	84.4	„	0.0					
4 „	.672	.680	81.7	80.0	1.7	79.7	.93	82.8	84.3	„	0·0					
5 „	.674	.699	81.6	79.8	1.8	79.2	.93	82.2	84.0	WSW	0.0					
6 „	.700	.719	81.8	80.0	1.8	79.4	.73	82.2	84.0	SW b W	0.1					
7 „	.722	.724	84.2	81.0	3.2	79·9	.87	84.4	84·2	SW b S	0.1					
8 „	.729	.805	87.0	80.0	7.0	77.5	.74	86.6	84.4	„	0.1					
9 „	.749	.832	88.4	80.2	8.2	77.2	.70	87.8	84.7	SW	0.2					
10 „	.752	.846	90.2	80.4	9.8	76.8	.66	89.0	85.0	SSW	0.3					
11 „	.735	.819	91.7	81.0	10.7	77.2	.64	90.2	85.3	„	0.3					
Noon.	.725	.812	92.0	81.0	11.0	77.1	.63	90.5	85.5	„	0.4	None.	None.	None.	None.	None.
1 p. m.	.695	.784	92.2	81.0	11.2	77.0	.62	90.5	85.6	SW	0.3					
2 „	.683	.790	92.6	80.7	11.9	76.4	.61	91.1	85.9	„	0.3					
3 „	.678	.765	92.0	81.0	11.0	77.1	.63	90.9	86.0	WSW	0.2					
4 „	.671	.766	90.4	80.4	10.0	76.8	.65	89.5	86.0	SW b W	0.1					
5 „	.676	.776	89.2	80.0	9.2	76·6	.67	88.4	86.0	„	0.1					
6 „	.691	.786	86.4	79.4	7.0	76.8	.74	86.2	85.7	„	0.1					
7 „	.699	.827	84.8	78.2	6.6	75.6	.75	84.6	85.5	„	0.1					
8 „	.721	.847	83.9	78.0	5.9	75.7	.77	84.2	85.3	SW	0.1					
9 „	.734	.857	83.6	78.0	5.6	75.8	.78	84.1	85.1	„	0.1					
10 „	.737	.855	83.2	78.0	5.2	76.0	.80	83.8	85.1	„	0.1					
11 „	.735	.851	83.0	78.0	5.0	76.1	.80	83.8	85.0	„	0.1					
May 11th-Midnight	.772	.924	82.6	77.0	5.6	74.8	.78	83.2	84.8	WSW	0.0					
1 a. m.	.765	.896	82.2	77.4	4.8	75.5	.81	83.0	84.7	„	0.0					
2 „	.747	.898	81.8	76.8	5.0	74.8	.80	82.8	84.5	„	0·0					
3 „	.739	.891	81.6	76.7	4.9	74.8	.81	82.5	84.4	„	0.0					
4 „	.757	.930	81.0	76.0	5.0	74.0	.80	81.8	84.2	SW b W	0.0					
5 „	.767	.930	80.8	76.2	4.6	74.4	.82	81.8	84.0	„	0.0					
6 „	.784	.922	81.4	77.0	4.4	75.3	.82	82.2	84.0	„	0.0					
7 „	.805	.946	83.8	77.6	6.2	75.2	.76	84.1	84.2	„	0.0					
8 „	.821	.949	86.4	78.6	7.8	75.6	.71	86.2	84.5	„	0.0					
9 „	.832	.980	87·4	78.4	9.0	74.9	·68	86.8	84.6	SW	0.1					
10 „	.832	.988	89.0	78.6	10.4	74.2	.64	88.2	84.8	SW b S	0.2					
11 „	.826	.956	90.0	79.5	10.5	75.7	.64	89.2	85.1	SW	0.2	None.	None.	None.	None.	None.
Noon.	.812	.929	90.8	80.0	10.8	76.0	.63	89.6	85.3	SSW	0.1					
1 p. m.	.794	.907	92.0	80.4	11.6	76.2	.61	90.7	85.6	SW b W	0.2					
2 „	.781	.911	92.4	80.1	12.3	75.6	.59	91.2	85.8	WSW	0.2					
3 „	.761	.861	91.6	80.6	11.0	76.6	.63	90.7	85.9	„	0.1					
4 „	.756	.881	91.5	80.0	11.5	75.8	.61	90.7	86.0	„	0.1					
5 „	.760	.848	88.8	80.2	8.6	73.4	.69	88.2	85.9	„	0.1					
6 „	.769	.877	86.8	79.2	7.6	76.4	.72	86.8	85.6	W	0.1					
7 „	.782	.886	85.0	78.8	6.2	76.5	.77	85.3	85.5	„	0.1					
8 „	.810	.933	84.4	78.2	6.2	75.8	.77	84.8	85.3	„	0.1					
9 „	.823	.942	84.0	78.2	5.8	76.0	.78	84.6	85.2	„	0.1					
10 „	.834	.973	83.6	77.6	6.0	75.2	.77	84.2	85.1	„	0.1					
11 „	.824	.936	83.4	78.2	5.2	76.2	.80	83.9	85.1	„	0.1					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ⌐ cirri; ⌐ cirro-cumuli; ⌒ cumuli; ⌣ cirro-strati; ⌒ cumulo-strati; and ⌣ nimbi.	
3	L	⌐ scattered about, whose motion was not apparent.	
1	C	Light ⌐ in E hem.	
1	C	Light ⌐ scattered around hor.	
0	C	" " "	
0	C	A few ⌐ above E and NE hor.	
0	N	⌐ scattered along E hor.	
1	N	⌐ and ⌐ scattered about.	
1	N	⌐ scattered around hor.	
5	N	⌐ scattered about, moving E.	
1	L	⌐ scattered in E hem. and about zth., moving E.	
4	L	⌐ in SE; otherwise clouded with ⌐, moving SE.	
6	L	" " " " " "	
3	L	⌐ scattered around hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 83°5 and 83°8.
7	C	⌐ scattered about, moving E.	
3	C	⌐ in E above hor.; ⌐ scattered about, moving E.	
4	C	" " " " " "	
3	C	⌣ along E and SE hor.; ⌐ scattered about, moving E.	
4	N	⌐ around hor.; ⌐ scattered about, moving SE.	
4	N	⌐ scattered around hor.; ⌐ scattered about, moving E.	
4	N	" " " " " "	
2	N	⌐ and ⌐ scattered about, moving NE.	
2	L	Light ⌐ scattered about, moving ENE.	
2	L	Light ⌐ scattered about, moving NE.	
2	L	" " " " "	
2	L	" " " " "	
2	C	Light ⌐ scattered about, moving N.	
3	C	Light ⌐ scattered about, moving NNE.	
3	C	" " " "	
4	C	" " " "	
4	N	Light ⌐ scattered about, moving NE.	
3	N	" " " "	
2	N	⌐ scattered around hor., moving N.	
2	N	⌐ scattered about, moving NE.	
2	N	⌐ scattered about, moving SE.	
2	N	" " "	
3	N	" " "	
1	L	⌐ scattered in E, SE, and S, and a few patches floating here and there.	Mean daily Temperature of Ground 20 and 60 inches below its surface 83°7 and 83°9.
1	C	⌐ scattered here and there.	
3	C	⌐ scattered about, moving NE.	
2	C	" " " "	
2	C	A few ⌐ to NE of zth; ⌐ scattered about.	
2	N	⌐ scattered around hor.	
1	N	⌐ scattered around hor., moving NE.	
1	N	⌐ scattered around hor., moving NE; light ⌐ scattered about.	
3	N	⌐ scattered about, moving NE.	
2	L	⌐ scattered here and there, moving NE.	
2	L	" " " " "	
2	L	⌐ scattered around hor., except in SW, moving NE.	
3	L	⌐ in NE, E, and SE hor. and a few about zth.; light ⌐ scattered about, moving NE.	
2	C	Light ⌐ scattered about, moving NE.	
3	C	Light ⌐ scattered about, moving NE; a few ⌐ in N, NE, and E above hor.	
3	C	" " " " " " " " "	
3	C	⌐ scattered about; a few ⌐ in N and W hor.	
4	N	⌐ scattered about, moving E.	
4	N	⌐ scattered about, moving E; a few ⌐ in SE above hor.	
6	N	⌐ scattered about, moving E; a few ⌐ in E and W above hor.	
3	N	⌐ scattered about, moving E.	
2	L	" " " "	
1	L	⌐ along E hor., moving E.	
0	L	A few patches of light ⌐ scattered along E hor.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Strawes of Volta 1.	Readings of Strawes of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
May 12th-Midnight	29.817	28.933	83°0	78°0	5°0	76°1	0.80	83°8	84°9	W	0.2					
1 a. m.	.805	.940	82.6	77.4	5.2	75.4	.80	83.3	84.8	„	0.1					
2 „	.788	.937	82.4	77.0	5.4	74.9	.79	83.1	84.6	„	0.1					
3 „	.779	.942	81.9	76.5	5.4	74.4	.79	82.8	84.5	„	0.1					
4 „	.782	.938	81.6	77.6	5.0	74.6	.80	82.6	84.4	„	0.0					
5 „	.791	.951	81.2	77.4	4.8	74.5	.81	82.0	84.2	„	0.0					
6 „	.809	.935	82.4	77.6	4.8	75.7	.81	83.9	84.2	„	0.0					
7 „	.831	.956	84.6	78.2	6.4	75.8	.76	85.0	84.4	„	0.0					
8 „	.844	.963	87.1	79.0	8.1	76.0	.70	86.8	84.6	„	0.1					
9 „	.852	29.002	88.4	78.6	9.8	74.8	.65	87.6	84.8	WSW	0.1					
10 „	.859	28.961	90.2	80.2	10.0	76.6	.65	89.4	85.1	„	0.1					
11 „	.855	.980	90.8	79.8	11.0	75.8	.62	89.8	85.3	W	0.1	None.	None.	None.	None.	None.
Noon.	.836	.957	91.9	80.2	11.7	75.9	.61	91.0	85.5	„	0.1					
1 p. m.	.812	.926	92.1	80.4	11.7	76.1	.61	90.8	85.7	WNW	0.1					
2 „	.787	.900	92.4	80.5	11.9	76.2	.60	91.3	85.9	„	0.1					
3 „	.775	.884	92.0	80.5	11.5	76.3	.61	91.1	86.0	W b N	0.1					
4 „	.771	.874	91.5	80.5	11.0	76.5	.63	90.3	86.1	W	0.1					
5 „	.768	.860	89.2	80.2	9.0	76.9	.68	88.6	86.1	W b N	0.1					
6 „	.778	.892	86.6	79.0	7.6	76.1	.72	86.2	85.9	„	0.1					
7 „	.794	.900	85.2	78.8	6.4	76.4	.76	85.2	85.6	„	0.1					
8 „	.806	.929	84.4	78.2	6.2	75.8	.76	84.6	85.4	„	0.1					
9 „	.825	.936	84.0	78.4	5.6	76.3	.78	84.6	85.4	WNW	0.0					
10 „	.832	.957	83.8	78.0	5.8	75.8	.78	84.0	85.3	„	0.1					
11 „	.833	.956	83.6	78.6	5.0	75.8	.81	84.0	85.2	„	0.1					
May 13th-Midnight	.819	.923	83.4	78.4	5.0	76.5	.81	83.8	85.1	WNW	0.1					
1 a. m.	.813	.895	83.0	78.8	4.2	77.3	.83	83.6	85.0	„	0.1					
2 „	.802	.901	82.6	78.3	4.3	76.7	.83	83.2	84.9	„	0.1					
3 „	.788	.902	82.4	77.9	4.5	76.1	.82	83.0	84.7	„	0.2					
4 „	.797	.911	82.4	77.9	4.5	76.1	.82	82.9	84.6	„	0.2					
5 „	.803	.910	82.2	78.0	4.2	76.4	.83	82.4	84.5	„	0.1					
6 „	.818	.921	82.6	78.2	4.4	76.5	.83	83.2	84.4	NW	0.1					
7 „	.846	.929	84.6	79.2	5.4	77.2	.79	84.4	84.6	„	0.1					
8 „	.868	.970	87.0	79.4	7.6	76.6	.72	86.8	84.8	„	0.1					
9 „	.874	.973	87.6	79.6	8.0	76.7	.71	87.0	85.1	„	0.1					
10 „	.877	.996	89.4	79.6	9.8	76.0	.66	88.4	85.2	NW b N	0.1					
11 „	.866	.996	90.4	79.6	10.8	75.6	.63	89.0	85.5	„	0.1	None.	None.	None.	None.	None.
Noon.	.851	.936	91.8	81.0	10.8	77.2	.63	90.6	85.7	NW	0.2					
1 p. m.	.826	.895	92.4	81.5	10.9	77.7	.63	91.2	86.0	„	0.2					
2 „	.803	.896	92.5	81.0	11.5	76.9	.62	91.5	86.2	WNW	0.3					
3 „	.784	.867	91.6	81.0	10.6	77.2	.64	90.9	86.2	NW	0.4					
4 „	.772	.858	90.6	80.7	9.9	77.1	.66	90.2	86.2	„	0.6					
5 „	.764	.840	87.4	80.1	7.3	77.5	.73	87.2	85.8	„	0.4					
6 „	.788	.886	85.2	79.0	6.2	76.7	.76	85.2	85.5	„	0.2					
7 „	.806	.910	84.2	78.6	5.6	76.5	.78	84.2	85.5	NW b N	0.2					
8 „	.822	.921	83.8	78.6	5.2	76.7	.80	84.0	85.4	„	0.2					
9 „	.837	.966	83.4	77.8	5.6	75.7	.78	83.6	85.3	„	0.1					
10 „	.834	.944	83.2	78.2	5.0	76.3	.80	83.2	85.2	„	0.1					
11 „	.828	.934	82.8	78.2	4.6	76.4	.82	83.0	85.1	„	0.1					
May 14th-Midnight	.816	.936	82.6	77.8	4.8	75.9	.81	83.0	85.0	NW b N	0.1					
1 a. m.	.811	.922	82.2	77.9	4.3	76.3	.83	82.8	84.8	„	0.1					
2 „	.809	.916	82.2	78.0	4.2	76.4	.83	82.7	84.7	„	0.2					
3 „	.815	.935	81.9	77.6	4.3	75.9	.83	82.2	84.5	„	0.2					
4 „	.815	.954	81.8	77.1	4.7	75.2	.81	82.2	84.5	„	0.1					
5 „	.823	.959	81.8	77.2	4.6	75.4	.82	82.2	84.4	„	0.1					
6 „	.839	.960	82.0	77.6	4.4	75.9	.83	82.8	84.3	„	0.1	None.			None.	
7 „	.860	.988	84.8	78.2	6.6	75.6	.75	84.8	84.5	„	0.1					
8 „	.879	.999	87.2	79.0	8.2	75.9	.70	86.6	84.7	„	0.1		Pos.	1		Above 10m.
9 „	.886	29.018	88.3	79.0	9.3	75.5	.67	87.5	85.0	„	0.1					
10 „	.880	.013	89.9	79.4	10.5	75.5	.64	88.8	85.2	„	0.1					
11 „	.876	28.979	91.1	80.4	10.7	76.5	.63	89.8	85.4	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩∪ cumulo-strati; and ≀∪ nimbi.	
5	L	Masses of ≀∪ scattered about, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 83°8 and 84°0. On this day the Mean Temperature of calculated Dew point was 74°3, the lowest during the month.
3	C	" " " " "	
1	C	≀∪ scattered about hor.; a few ≀ to S of zth.	
1	C	Light ≀∪ scattered around hor.; a few ≀ to S of zth.	
1	C	" " " " " "	
3	N	≀∪ and ≀ scattered about, the former moving ESE.	
3	N	" " " " " "	
3	N	≀∪ scattered about, moving E.	
3	N	" " " "	
2	L	≀∪ scattered around hor., except in SW and W, moving E.	
2	L	" " " " " " "	
2	L	Light ≀∪ scattered around hor., except in W and NW.	
1	L	Light ≀∪ scattered along E hor.	
1	C	≀∪ around hor.; ≀ in N and E above hor.	
1	C	Light ≀∪ from N to SW hor.; ≀ along E hor.	
2	C	Light ≀∪ scattered about, moving E; light ≀ in E and SE.	
3	C	" " " " " " "	
3	N	Light ≀∪ scattered about, moving E.	
4	N	" " " "	
6	N	" " " "	
4	N	" " " "	
3	L	" " " "	
3	L	≀∪ around hor.; ≀∪ scattered in E and SE about zth.	
1	L	Light ≀∪ along E hor.; ≀∪ in E hem.; ≀ in E above hor.	
3	L	Light ≀∪ scattered about, moving NE; a few patches of ≀∪ in S.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 84°0.
2	C	≀∪ around hor., moving SSE; ≀∪ scattered about hor. from NE to SW.	
4	C	≀∪ scattered about, moving SE; light ≀ above E hor.	
3	C	≀∪ in NW, N, NE, and E about hor.; ≀ and ≀∪ in SE, S, and SW about hor.,	
5	C	≀∪ scattered about, moving ENE. [the latter moving SSE.	
2	N	≀∪ around hor.; ≀ scattered to W and SW of zth.	
2	N	≀ and ≀∪ around hor., otherwise clear.	
4	N	≀∪ and ≀∪ scattered about, the former moving SE.	
3	N	" " " " " "	
3	L	" " " " " " "	
2	L	≀∪ scattered about hor.; a few patches of ≀∪ in E and SE above hor.	
2	L	∩ and ≀∪ along E hor., the latter rather dense in W and NW.	
1	L	∩ and ≀∪ around hor.	
1	C	∩ and ≀∪ along E hor., a few ≀ in NW hor.	
1	C	∩ along E; ≀∪ along W hor.; a few ≀ scattered in NW and S.	
1	C	∩ along E hor.; light ≀ scattered in S and NW.	
1	C	∩ in SE and E hor.; linear ≀ around hor.	
1	N	∩ in SE hor.; scattered floating here and there.	
2	N	∩ in SE hor; ≀ around hor., except in NE and E; ≀∪ about W hor.	
2	N	" " " " " " " "	
1	N	Patches of clouds around hor.	
0	L	A few patches of clouds in E hem.	
0	L	" " " "	
0	L	Clear.	
0	L	A few patches of clouds along E hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 84°0. At 9 A. M. the Standard Barometer was 29.886, the highest during the month.
0	C	≀∪ scattered in E and W.	
6	C	≀∪ scattered about, moving SE.	
5	C	" " " "	
2	C	" " " "	
2	N	" " " "	
2	N	≀∪ scattered about hor.; ≀ in SW and W.	
4	N	≀∪ scattered about, moving SE.	
3	N	" " " "	
2	L	Light ≀∪ scattered around hor., in N and E of zth.	
1	L	Light ≀∪ in NE, E, SW, and W above hor.; ≀ above SW and W hor.	
2	L	Light ≀∪ from W to E hor.; ≀ scattered about hor. from E to SW.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or —	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the full force of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
May 14th-Noon.	29.862	28.971	92°0	80°5	11°5	76°3	0.61	90°4	85°7	NW	0.1					
1 p. m.	.831	.941	92.9	80.7	12.2	76.3	.60	91.5	85.9	WNW	0.2					
2 „	.807	.901	92.3	80.9	11.4	76.8	.62	91.3	86.1	„	0.2					
3 „	.795	.908	92.0	80.4	11.6	76.2	.61	91.0	86.3	„	0.2					
4 „	.781	.857	91.0	81.0	10.0	77.5	.66	90.1	86.3	W b N	0.4					
5 „	.784	.875	88.4	80.0	8.4	76.9	.70	88.0	86.0	WNW	0.2					
6 „	.791	.885	85.6	79.2	6.4	76.8	.76	85.4	85.6	NW	0.2	None.	None.	None.	None.	None.
7 „	.795	.880	84.0	79.0	5.0	77.2	.81	84.0	85.3	„	0.3					
8 „	.807	.902	83.4	78.6	4.8	76.8	.81	83.8	85.3	„	0.2					
9 „	.804	.906	83.2	78.4	4.8	76.6	.81	83.5	85.2	„	0.2					
10 „	.814	.917	82.6	78.2	4.4	76.5	.83	83.0	85.2	„	0.2					
11 „	.814	.932	82.4	77.8	4.6	76.0	.82	82.9	85.0	„	0.1					
May 15th-Midnight	.798	.929	82.2	77.4	4.8	75.5	.81	82.6	84.9	NW b N	0.1					
1 a. m.	.799	.912	82.0	77.8	4.2	76.2	.83	82.6	84.7	„	0.1		Pos.	2		Above 10m.
2 „	.785	.917	81.9	77.3	4.6	75.5	.82	82.2	84.5	„	0.1		Pos.	3		2.10
3 „	.781	.916	81.8	77.4	4.4	75.4	.82	82.2	84.5	„	0.1		Pos.	2		4.00
4 „	.788	.910	81.7	77.5	4.2	75.9	.83	82.1	84.4	„	0.1		Pos.	1		3.30
5 „	.794	.932	81.4	77.0	4.4	75.3	.83	81.8	84.3	„	0.1					
6 „	.819	.926	82.2	78.0	4.2	76.4	.83	83.0	84.3	„	0.1					
7 „	.844	.952	84.6	78.6	6.0	76.4	.77	84.2	84.5	„	0.0		Pos.	1		Above 10m.
8 „	.851	29.000	86.0	78.0	8.0	74.9	.70	85.4	84.5	„	0.0		Pos.	1		Above 10m.
9 „	.864	28.995	87.4	78.8	8.6	75.5	.69	86.0	84.8	„	0.0		Pos.	1		Above 10m.
10 „	.863	.989	89.2	79.4	9.8	75.7	.66	88.0	85.1	„	0.1		Pos.	1		Above 10m.
11 „	.841	.992	90.0	79.0	11.0	74.8	.62	88.7	85.2	„	0.1	None.			None.	
Noon.	.826	.949	91.4	80.0	11.4	75.8	.62	89.8	85.5	NW	0.2					
1 p. m.	.790	.900	91.8	80.4	11.4	76.3	.62	90.4	85.7	WNW	0.2					
2 „	.772	.884	91.9	80.4	11.5	76.2	.62	90.8	85.9	„	0.3					
3 „	.766	.882	91.5	80.2	11.3	76.1	.62	90.2	86.0	„	0.2					
4 „	.761	.861	91.2	80.5	10.7	76.6	.63	90.0	86.1	„	0.2					
5 „	.767	.857	89.0	80.2	8.8	77.0	.71	88.2	86.0	W b N	0.2					
6 „	.770	.877	86.0	79.0	7.0	76.4	.74	86.0	85.6	WNW	0.2					
7 „	.783	.887	84.2	78.6	5.6	76.5	.78	84.0	85.4	„	0.2					
8 „	.799	.911	83.4	78.2	5.2	76.2	.80	83.6	85.3	„	0.1		Pos.	1		Above 10m.
9 „	.820	.930	83.2	78.2	5.0	76.3	.80	83.4	85.2	„	0.1					
10 „	.826	.930	83.0	78.3	4.7	76.5	.82	83.2	85.1	„	0.0					
11 „	.820	.931	82.5	78.0	4.5	76.3	.82	82.9	85.0	„	0.1					
May 16th-Midnight	.799	.925	82.4	77.6	4.8	75.7	.81	82.7	84.8	WNW	0.2					
1 a. m.	.781	.888	82.2	78.0	4.2	76.4	.83	82.7	84.7	„	0.2					
2 „	.771	.916	82.0	77.0	5.0	75.0	.80	82.3	84.6	„	0.1					
3 „	.759	.921	81.4	76.4	5.0	74.4	.80	82.0	84.5	NW b W	0.0					
4 „	.766	.939	81.0	76.0	5.0	74.0	.80	81.4	84.3	„	0.0					
5 „	.768	.898	80.6	77.0	3.6	75.6	.85	81.2	84.0	„	0.0					
6 „	.792	.905	81.2	77.6	3.6	76.2	.86	81.6	84.0	„	0.0					
7 „	.815	.949	84.6	78.0	6.6	75.4	.75	84.8	84.3	NW b N	0.0					
8 „	.835	.932	87.0	79.5	7.5	76.7	.72	86.2	84.5	„	0.0					
9 „	.853	.950	88.2	79.8	8.4	76.7	.70	87.0	84.9	S	0.0					
10 „	.846	.950	88.8	79.8	9.0	76.5	.68	88.0	85.0	SW b S	0.1					
11 „	.843	.979	90.2	79.4	10.8	75.4	.63	89.4	85.2	W	0.2	None.	None.	None.	None.	None.
Noon.	.834	.966	91.0	79.7	11.3	75.5	.62	90.0	85.4	„	0.1					
1 p. m.	.814	.976	91.0	79.0	12.0	74.4	.59	90.0	85.5	„	0.1					
2 „	.792	.914	91.3	80.0	11.3	75.9	.62	90.4	85.7	W b N	0.2					
3 „	.772	.924	92.0	79.5	12.5	74.8	.58	90.5	86.0	W	0.2					
4 „	.764	.899	91.2	79.7	11.5	75.4	.61	90.2	86.0	„	0.1					
5 „	.761	.902	88.3	78.8	9.5	75.2	.66	87.6	85.9	WNW	0.2					
6 „	.771	.918	85.8	78.0	7.8	75.0	.71	85.7	85.5	„	0.3					
7 „	.779	.943	84.2	77.4	6.8	74.3	.74	84.2	85.4	„	0.1					
8 „	.797	.943	83.6	77.4	6.2	75.0	.76	83.9	85.2	„	0.1					
9 „	.808	.964	83.0	77.0	6.0	74.6	.77	83.4	85.0	„	0.1					
10 „	.811	.963	82.6	77.0	5.6	74.8	.78	83.0	84.9	„	0.1					
11 „	.807	.950	82.2	77.1	5.1	75.1	.80	82.7	84.8	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩∪ cumulo-strati; and ≀∪ nimbi.	
1	L	≀ scattered along E hor. in W; ≀≀ about E hor.	
1	C	Clouded as at noon.	
1	C	≀≀ scattered around hor.; light ≀ in SSE hor.	
1	C	≀≀ scattered around hor., except in N; light ≀ in hor. from SE to NW.	
1	C	≀≀ scattered around hor.	
1	N	≀≀ in NE and N; ≀ scattered around hor.	
1	N	≀≀ in NW, N, and NE moving SE; ≀ scattered around hor.	
1	N	≀ scattered around hor., otherwise clear.	
1	N	A few pieces of clouds scattered here and there, moving SE.	
1	L	" " " " " " "	
2	L	Light ≀≀ scattered about hor.	
2	L	" " " "	
3	L	Light ≀≀ scattered about, moving SE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 84°0.
4	C	" " " "	
3	C	Light ≀≀ scattered about, moving E.	
3	C	" " " "	
6	C	" " " "	
2	N	Light ≀≀ scattered about, moving SE.	
3	N	" " " "	
3	N	" " " "	
2	N	≀≀ scattered about hor., moving SE.	
2	L	≀≀ scattered about hor., from N to SW; light ≀ in SW about zth.	
2	L	Light ≀≀ scattered about NE, E, and SE *hor.*; ≀ in S and SW about zth.	
1	L	Light ≀≀ scattered along E hor.; ≀ in SE and S about zth.	
0	L	" " " " " " " "	
0	C	≀≀ in N and NE hor.; ≀ in N and S above hor.	
0	C	" " " " " "	
0	C	Patches of ≀≀ along E hor.; a few ≀ *in* S above hor.	
0	C	Light ≀ in S and SE above hor.	
0	N	≀ scattered here and there about hor.	
0	N	A few pieces of clouds scattered here and there about hor.	
1	N	Patches of light ≀≀ scattered around hor., moving SE.	
1	N	" " " " " "	
1	L	" " " " " "	
2	L	" " " " " "	
2	L	" " " " " "	
1	L	Light ≀≀ scattered about hor., moving SE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 84°0.
3	C	Light ≀≀ scattered about, moving SE.	
2	C	" " " " "	
2	C	" " " " "	
1	C	Light ≀≀ scattered around hor.	
2	N	Light ≀≀ scattered around hor., moving SE.	
2	N	" " " " "	
2	N	" " " " "	
3	N	" " " " "	
3	L	Light ≀≀ scattered in NE and SW and also around hor., moving slowly E.	
3	L	Light ≀≀ scattered about, moving NE	
2	L	Light ≀≀ scattered about, moving E.	
1	L	Light scattered around hor., moving E.	
1	C	Light ≀≀ scattered about, moving E.	
1	C	∩≀ in hor. from N to SE *hor.*; a few ≀ in S.	
0	C	∩≀ along E hor.; ≀ scattered W of zth.	
0	C	Light ≀ in SW, otherwise clear.	
0	C	" " " "	
0	C	A few ≀ in W and NW above hor.	
0	C	Cloudless except a few clouds along W hor.	
0	C	Clear.	
0	C	Clear; light in E hor. at intervals of 15s.	
0	C	Clear; continuous lightning in SE.	
1	C	A few patches of clouds along W.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
May 18th-Midnight	29.785	28.900	82°2	77°8	4°4	76°1	0.83	82°6	84°5	W b N	0.1					
1 a. m.	.783	.928	82.0	77.0	5.0	75.0	.80	82.6	84.5	„	0.0					
2 „	.778	.919	81.6	77.0	4.6	75.2	.82	82.0	84.4	„	0.0					
3 „	.774	.922	81.2	76.7	4.5	74.9	.82	81.9	84.3	„	0.0					
4 „	.783	.921	81.4	77.0	4.4	75.3	.82	82.2	84.2	„	0.0		Pos.	1		Above 10m.
5 „	.781	.921	81.2	76.9	4.3	75.2	.83	81.8	84.0	„	0.0		Pos.	2		Above 10m.
6 „	.804	.955	81.8	76.8	5.0	74.8	.80	82.6	84.0	„	0.0		Pos.	2		Above 10m.
7 „	.827	.982	84.4	77.4	7.0	74.7	.73	84.2	84.2	„	0.1		Pos.	2		Above 10m.
8 „	.836	.983	86.6	78.2	8.4	75.0	.69	86.2	84.4	WNW	0.1		Pos.	1		Above 10m.
9 „	.842	.998	87.4	78.2	9.2	74.6	.67	86.5	84.7	„	0.1					
10 „	.840	.982	89.2	79.0	10.2	75.1	.65	88.4	84.9	„	0.1					
11 „	.826	.981	90.4	79.0	11.4	74.7	.61	89.4	85.1	W	0.2	None.			None.	
Noon.	.813	.969	91.2	79.2	12.0	74.7	.60	89.6	85.4	W b S	0.1					
1 p. m.	.794	.967	92.0	79.0	13.0	74.0	.60	90.2	85.6	W	0.1					
2 „	.768	.941	92.4	79.1	13.3	74.0	.56	91.1	85.8	„	0.1					
3 „	.745	.918	92.4	79.1	13.3	74.0	.56	91.1	86.0	„	0.1					
4 „	.723	.866	91.6	79.6	12.0	75.1	.60	90.3	86.0	„	0.2					
5 „	.727	.868	89.5	79.1	10.4	75.2	.64	88.3	86.0	„	0.1					
6 „	.734	.866	86.8	78.6	8.2	75.5	.70	86.4	85.7	„	0.1		Pos.	1		Above 10m.
7 „	.744	.882	84.6	77.9	6.7	75.3	.75	84.6	85.5	WSW	0.1					
8 „	.764	.919	84.0	77.3	6.7	74.7	.75	84.2	85.3	„	0.1		Pos.	1		Above 10m.
9 „	.774	.924	83.6	77.3	6.3	74.8	.76	83.9	85.2	„	0.1					
10 „	.783	.927	83.4	77.4	6.0	75.1	.77	83.6	85.1	„	0.1		Pos.	1		Above 10m.
11 „	.783	.923	83.0	77.4	5.6	75.2	.78	83.4	85.1	„	0.0		Pos.	4		Above 10m.
May 19th-Midnight	.774	.909	82.6	77.4	5.2	75.4	.80	82.8	84.9	W b S	0.0		Pos.	4		Above 10m.
1 a. m.	.762	.910	82.3	77.0	5.3	74.9	.79	82.6	84.8	WSW	0.0		Pos.	1		
2 „	.750	.893	81.8	77.0	4.8	75.1	.81	82.4	84.6	„	0.1		Pos.	1		
3 „	.749	.899	81.4	76.7	4.7	74.8	.81	82.2	84.5	„	0.1					
4 „	.759	.930	81.2	76.1	5.1	74.1	.80	82.1	84.4	„	0.1		Pos.	1		
5 „	.770	.936	81.4	76.3	5.1	74.3	.80	82.0	84.2	„	0.0					
6 „	.806	.954	82.3	77.0	5.3	74.9	.79	83.2	84.2	„	0.1					
7 „	.820	.975	84.4	77.4	7.0	74.7	.73	84.2	84.4	„	0.1					
8 „	.832	29.025	86.4	77.0	9.4	73.2	.66	85.4	84.5	SW	0.1					
9 „	.840	28.995	88.0	78.4	9.6	74.7	.66	86.6	84.8	SW b S	0.1					
10 „	.839	.993	89.9	78.9	11.0	74.7	.62	88.7	85.0	SW	0.1					
11 „	.832	.955	91.4	80.0	11.4	75.8	.62	90.2	85.3	„	0.2	None.			None.	
Noon.	.819	.994	92.2	79.0	13.2	73.9	.56	90.4	85.6	„	0.1					
1 p. m.	.786	.951	92.0	79.2	12.8	74.3	.57	90.3	85.7	WSW	0.1					
2 „	.756	.930	92.5	79.1	13.4	74.0	.56	91.0	85.9	W b S	0.1					
3 „	.739	.910	91.8	79.0	12.8	74.1	.57	90.4	86.0	WSW	0.1					
4 „	.725	.865	91.7	79.7	12.0	75.2	.60	90.4	86.1	W b S	0.1					
5 „	.728	.885	89.4	78.7	10.7	74.6	.63	88.4	86.1	SW b W	0.1					
6 „	.742	.888	86.5	78.2	80.3	75.0	.70	86.3	85.8	„	0.1		Pos.	1		Above 10m.
7 „	.757	.922	84.6	77.2	7.4	74.3	.72	84.4	85.5	SW	0.2		Pos.	1		Above 10m.
8 „	.771	.938	84.0	77.0	7.0	74.2	.73	84.1	85.4	„	0.1					
9 „	.782	.953	83.6	76.8	6.8	74.1	.74	83.7	85.3	SW b S	0.1					
10 „	.791	.903	83.4	78.2	5.2	76.2	.80	83.7	85.2	SSW	0.1					
11 „	.780	.920	83.0	77.4	5.6	75.2	.78	83.2	85.1	SW b S	0.0					
May 20th-Midnight	.773	.901	82.6	77.6	5.0	75.6	.80	82.8	85.0	SW	0.0					
1 a. m.	.763	.883	82.6	77.8	4.8	75.9	.83	83.1	84.8	WSW	0.0					
2 „	.747	.867	82.6	77.8	4.8	75.9	.83	83.1	84.8	„	0.0					
3 „	.741	.888	82.2	77.0	5.2	75.0	.79	82.8	84.7	„	0.0					
4 „	.747	.863	82.1	77.6	4.5	76.1	.82	82.7	84.6	„	0.0					
5 „	.747	.876	82.0	77.4	4.6	75.6	.82	82.2	84.4	„	0.0	None.	None.	None.	None.	None.
6 „	.769	.881	82.6	78.0	4.6	76.2	.82	83.0	84.4	„	0.0					
7 „	.787	.866	84.2	79.2	5.0	77.4	.81	84.4	84.5	„	0.0					
8 „	.803	.853	86.2	80.4	5.8	78.3	.78	86.4	84.6	SW	0.1					
9 „	.801	.884	87.6	80.0	7.6	77.2	.72	87.0	85.0	WSW	0.1					
10 „	.799	.886	89.6	80.4	9.2	77.1	.68	89.2	85.2	W	0.1					
11 „	.788	.860	90.6	81.0	9.6	77.6	.67	90.0	85.5	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩≀ cumulo-strati; and ≀≀ nimbi.	
2	N	≀≀ scattered about, moving SE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 84°0.
1	C	" " " "	
3	C	" " " "	
3	C	" " " "	
3	C	" " " "	
2	N	≀≀ scattered about, moving E.	
2	N	" " " "	
2	N	" " " "	
3	N	" " " "	
3	L	≀≀ scattered about, moving SE.	
3	L	" " " "	
2	L	≀≀ scattered about, moving E.	
2	L	" " " "	
2	C	" " " "	
1	C	" " " "	
2	C	Fleecy clouds scattered about, moving E; a few ≀ above E, SE, and S hor.	
2	C	≀≀ around hor. and in zth.; ≀ scattered along E.	
5	N	≀≀ and ≀ scattered about, the former moving NE.	
6	N	≀ scattered throughout.	
7	N	" " "	
2	N	A few patches of clouds scattered here and there, moving E.	
1	L	A few patches of clouds around hor.	
2	L	≀≀ around hor. and W of zth., moving E.	
2	L	" " " " "	
2	L	≀≀ scattered around hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°1 and 84°2.
2	L	" "	
2	L	" "	
2	C	≀≀ scattered about, moving E.	
4	C	≀≀ scattered about, moving NE.	
4	N	Dense ≀≀ scattered about, moving ENE; a few ≀ above S and SE hor.	
3	N	Dense ≀≀ scattered about, moving ENE.	
3	N	Dense ≀≀ scattered about, moving E.	
3	N	" " " "	
2	L	Dense ≀≀ scattered about, moving NE.	
1	L	Patches of ≀≀ scattered around hor., moving NE.	
3	L	≀≀ scattered about, moving NNE.	
2	L	" " " "	
2	C	≀≀ scattered about, moving NNE; a few ≀ in SW above hor.	
2	C	" " " " " " "	
2	C	≀≀ scattered about, moving NE.	
2	C	" " " "	
0	N	≀≀ scattered about, moving E.	
1	N	" " " "	
0	N	A few patches of ≀≀ along W hor.	
0	N	" " " "	
0	L	Clear, except in hor.	
0	L	A few patches of clouds above NW hor.	
1	L	≀≀ scattered about hor. from W to NNE.	
2	L	Light ≀≀ scattered around hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°1 and 84°2.
3	C	Light ≀≀ scattered about, moving SE.	
2	C	" " " "	
1	C	Light ≀≀ scattered here and there.	
3	C	≀≀ scattered about, moving E; drops of rain at the time of observation.	
6	N	≀≀ scattered about, moving NE.	
7	N	Densely clouded with ≀≀ and ≀≀, the former moving E.	
5	N	≀≀ and ≀≀ scattered about, the former moving NE.	
4	N	" " " " " "	
7	L	∩≀ along E hor.; ≀≀ in E and SE above hor.; ≀≀ scattered throughout.	
3	L	∩≀ along E hor.; ≀ above S and SE hor.; ≀≀ scattered about.	
2	L	∩≀ along E hor.; a few ≀ in SE; ≀≀ scattered about.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
May 20th-Noon.	29.778	28.847	91°2	81°2	10°0	77°7	0.66	90°2	85°7	W	0.1					
1 p. m.	.744	.821	91.9	81.2	10.7	77.4	.64	91.0	86.0	„	0.1					
2 „	.718	.798	92.6	81.3	11.3	77.3	.62	91.6	86.1	„	0.2					
3 „	.700	.759	92.1	81.7	10.4	78.0	.65	91.2	86.3	„	0.2					
4 „	.684	.771	92.0	81.0	11.0	77.1	.63	91.4	86.5	„	0.1					
5 „	.693	.757	89.8	81.0	8.8	77.9	.69	89.2	86.3	„	0.1	None.	None.	None.	None.	None.
6 „	.709	.779	87.2	80.2	7.0	77.7	.74	87.3	86.1	„	0.1					
7 „	.723	.796	85.2	79.6	5.6	77.6	.79	85.6	85.9	„	0.1					
8 „	.745	.834	84.4	79.0	5.4	77.0	.79	84.8	85.7	„	0.1					
9 „	.758	.837	84.2	79.2	5.0	77.4	.81	84.8	85.7	„	0.1					
10 „	.768	.845	84.0	79.2	4.8	77.4	.81	84.5	85.5	„	0.2					
11 „	.763	.846	83.8	79.0	4.8	77.2	.81	84.4	85.4	„	0.1					
May 21st-Midnight	.750	.839	83.6	78.8	4.8	77.0	.81	84.0	85.3	W	0.3					
1 a. m.	.736	.774	83.2	79.9	3.3	78.7	.87	84.0	85.2	W b N	0.2					
2 „	.721	.799	83.0	78.9	4.1	77.4	.84	83.5	85.0	„	0.3					
3 „	.719	.808	82.5	78.5	4.0	77.0	.84	83.1	84.9	WNW	0.2					
4 „	.720	.809	82.5	78.5	4.0	77.0	.84	83.1	84.7	NW	0.3					
5 „	.721	.797	82.4	78.8	3.6	77.5	.86	82.8	84.6	„	0.1					
6 „	.741	.843	83.2	78.4	4.8	76.6	.81	83.8	84.7	„	0.2					
7 „	.765	.833	85.5	79.8	5.7	77.7	.78	85.8	84.8	„	0.2					
8 „	.779	.845	87.0	80.2	6.8	77.7	.75	87.0	85.1	NNW	0.1					
9 „	.795	.916	88.8	79.4	9.4	75.9	.67	88.6	85.3	„	0.1					
10 „	.793	.889	89.6	80.2	9.4	76.8	.67	89.2	85.6	„	0.2					
11 „	.786	.855	90.3	81.0	9.3	77.7	.68	89.4	85.7	„	0.2	None.	None.	None.	None.	None.
Noon.	.758	.807	91.6	81.8	9.8	78.4	.66	91.2	86.0	„	0.2					
1 p. m.	.718	.764	91.9	81.9	10.0	78.5	.66	91.2	86.2	NW b W	0.2					
2 „	.689	.734	92.2	82.0	10.2	78.5	.66	91.4	86.4	„	0.2					
3 „	.669	.711	91.8	82.0	9.8	78.6	.66	91.3	86.5	„	0.3					
4 „	.662	.724	90.8	81.3	9.5	77.9	.67	90.4	86.5	„	0.4					
5 „	.669	.750	89.0	80.4	8.6	77.3	.69	88.2	86.4	WNW	0.1					
6 „	.687	.765	87.2	80.0	7.2	77.4	.74	86.8	86.3	„	0.1					
7 „	.697	.781	85.4	79.4	6.0	77.2	.77	85.0	86.0	„	0.1					
8 „	.718	.788	85.0	79.6	5.4	77.7	.79	84.8	85.8	NW b W	0.3					
9 „	.728	.820	84.6	79.0	5.6	76.9	.79	84.6	85.8	„	0.1					
10 „	.743	.832	84.4	79.0	5.4	77.0	.79	84.4	85.7	W	0.2					
11 „	.731	.825	84.1	78.8	5.3	76.8	.80	84.2	85.6	„	0.2					
May 22nd-Midnight	.727	.834	83.7	78.4	5.3	76.4	.79	83.7	85.4	WNW	0.3					
1 a. m.	.719	.837	83.2	78.0	5.2	76.0	.80	83.5	85.3	NW b W	0.1					
2 „	.718	.834	83.0	78.0	5.0	76.1	.82	83.4	85.2	„	0.2					
3 „	.714	.814	83.0	78.4	4.6	76.6	.82	83.2	85.1	„	0.1					
4 „	.718	.820	82.8	78.3	4.5	76.6	.83	83.1	85.0	„	0.1					
5 „	.733	.836	82.6	78.2	4.4	76.5	.83	82.4	85.0	„	0.1					
6 „	.748	.826	83.4	79.0	4.4	77.4	.75	83.8	84.8	„	0.1					
7 „	.775	.855	86.6	79.8	6.8	77.3	.71	85.8	85.0	„	0.1					
8 „	.792	.883	87.6	79.8	7.8	76.9	.68	87.0	85.2	„	0.1					
9 „	.800	.898	89.0	80.0	9.0	76.7	.68	88.7	85.5	„	0.1		Pos.	1		Above 10m.
10 „	.799	.880	89.8	80.6	9.2	77.3	.66	89.0	85.7	NW	0.1		Pos.	1		Above 10m.
11 „	.795	.871	91.0	81.0	10.0	77.5	.65	90.2	85.9	„	0.1		Pos.	1		Above 10m.
Noon.	.773	.835	91.8	81.5	10.3	77.9	.64	90.6	86.1	„	0.2		Pos.	1		Above 10m.
1 p. m.	.733	.816	92.1	81.2	10.9	77.2	.64	91.2	86.4	NW b W	0.3	None.	Pos.	1	None.	Above 10m.
2 „	.714	.812	91.0	80.5	10.5	76.7	.64	90.2	86.4	NW	0.0					
3 „	.670	.879	90.9	80.3	10.6	76.3	.66	90.1	86.5	„	0.4					
4 „	.660	.763	89.8	80.1	9.7	76.5	.67	89.5	86.5	„	0.2					
5 „	.661	.784	88.6	79.3	9.3	75.8	.73	88.2	86.4	„	0.1		Pos.	1		Above 10m.
6 „	.687	.792	86.6	79.2	7.4	76.5	.73	86.2	86.2	„	0.2		Pos.	1		Above 10m.
7 „	.712	.814	85.5	79.0	6.5	76.6	.76	85.4	86.0	„	0.1		Pos.	1		Above 10m.
8 „	.742	.840	85.2	79.0	6.2	76.7	.76	85.4	86.0	„	0.1		Pos.	1		Above 10m.
9 „	.743	.851	84.6	78.6	6.0	76.4	.77	84.7	85.8	„	0.2					
10 „	.766	.864	84.4	78.8	5.6	76.7	.78	84.6	85.7	„	0.1					
11 „	.767	.894	84.0	78.0	6.0	75.7	.77	84.2	85.7	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∖ cirri; ∿ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩ cumulo-strati; and ∿ nimbi.	
2	L	∩ along E hor.; ∿ in SE, S, SW, and NE hor.; a few patches of light ∿ scatd.	
2	C	∖ above SE hor.; ∿ scattered here and there, moving E. [here and there.	
2	C	" " " " " " "	
2	C	" " " " " " "	
1	C	Patches of ∿ scattered around hor., moving E.	
2	N	" " " " " "	
2	N	" " " " " "	
1	N	" " " " " "	
1	N	" " " " " "	
1	L	" " " " " "	
2	L	∿ scattered around hor., moving ESE.	
1	L	" " " "	
2	L	∿ around hor.; masses of light ∿ scattered in E hem.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°2 and 84°3.
2	C	Light ∿ scattered about, moving E.	
1	C	Masses of light ∿ scattered about, moving SE.	
2	C	∿ scattered about E hem. around hor.	
2	C	∿ scattered about, moving SE.	
3	N	∿ scattered about, moving E; ∿ around hor.	
2	N	∿ scattered about hor., moving SE.	
2	N	" " " "	
2	N	" " " "	
2	L	" " " "	
2	L	" " " "	
2	L	∿ scattered around hor. and in SE.	
2	L	∿ scattered about hor.	
1	C	∿ scattered around hor. and in zth.	
3	C	∿ scattered about, moving ESE.	
2	C	∿ scattered about, moving E; a few masses of ∿ in E above hor.	
3	C	∿ scattered about, moving ESE.	
4	N	" " " "	
4	N	" " " "	
4	N	∿ scattered about, moving SE; lightning in SE.	
3	N	∿ scattered about, moving SE; continuous lightning in SE.	
2	L	" " " " " " "	
2	L	" " " " " " "	
2	L	" " " " " " "	
3	L	Light ∿ scattered about, moving E; lightning in E hor. in every 2m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°4 and 84°5.
2	L	Light ∿ scattered around hor. in E of zth., moving E.	
2	C	Masses of ∿ floating E; it was raining in drops at 2h. 50m.	
1	C	∿ scattered here and there, moving E.	
1	C	" " " " "	
2	N	∿ scattered around hor., except in SW, moving SE.	
2	N	∿ scattered about, moving SE.	
2	N	∿ scattered around hor.	
1	N	∿ scattered about hor. from NW to S.	
1	L	∿ scattered from N to SE hor.	
1	L	" " " "	
2	L	∿ around hor., except in SE and S.	
2	L	∿ around hor. and about zth., moving SE.	
2	C	∿ scattered about hor.	
1	C	Electrical ∩ along E hor.	
0	C	" " "	
1	C	" " "	
0	N	" " "	
3	N	∩ along E hor.; light ∿ scattered about, moving SE; lightning in NE hor.	
6	N	∩ along E hor.; ∿ scatd. about, moving SE; continuous lightning in E & NE hor.	
3	N	∿ scattered about, moving SE; lightning in E every 2m. 15s.	
2	L	∿ scattered around hor.; continuous lightning in NE.	
3	L	∿ scattered about, moving SE; lightning in NE every 1m. 20s.	
1	L	∿ scattered around hor., otherwise clear.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture	In the Air.	Wet-Bulb Thermometer.	Depression of Wet-Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
May 23rd-Midnight	29.764	28.872	83°8	78°4	5°4	76°4	0.79	84°0	85°6	NW	0.1					
1 a. m.	.749	.868	83.3	78.0	5.3	76.0	.79	83.5	85.5	,,	0.1					
2 ,,	.741	.865	83.0	77.8	5.2	75.8	.80	83.2	85.2	NNE	0.1					
3 ,,	.741	.883	82.7	78.0	4.7	75.1	.82	83.1	85.2	,,	0.0					
4 ,,	.739	.856	82.7	77.9	4.8	76.0	.81	83.1	85.1	ENE	0.0					
5 ,,	.728	.832	81.9	78.0	3.9	76.5	.85	82.4	85.0	SW b S	0.0					
6 ,,	.756	.861	82.0	78.0	4.0	76.5	.84	82.6	84.8	,,	0.0					
7 ,,	.769	.872	85.6	79.0	6.6	76.5	.75	84.8	85.0	SW	0.0					
8 ,,	.776	.888	87.2	79.2	8.0	76.2	.71	86.3	85.2	WNW	0.1					
9 ,,	.783	.929	88.8	78.8	10.0	75.0	.65	88.0	85.5	,,	0.1					
10 ,,	.785	.885	89.2	80.0	9.2	76.6	.68	88.8	85.6	,,	0.1					
11 ,,	.773	.891	90.9	80.0	10.9	76.0	.63	90.2	85.8	NW	0.3					
Noon.	.756	.866	91.8	80.4	11.4	76.3	.62	90.6	86.1	,,	0.3					
1 p. m.	.729	.818	92.2	81.0	11.2	77.0	.62	91.2	86.3	NW b N	0.3	None.	None.	None.	None.	None.
2 ,,	.702	.793	92.4	81.0	11.4	76.9	.62	91.2	86.5	,,	0.2					
3 ,,	.684	.779	92.0	80.8	11.2	76.8	.62	91.2	86.6	NNW	0.1					
4 ,,	.660	.760	92.0	80.7	11.3	76.6	.62	91.2	86.7	W b N	0.1					
5 ,,	.690	.797	89.8	80.0	9.8	76.4	.66	89.4	86.7	,,	0.1					
6 ,,	.705	.809	87.2	79.4	7.8	76.5	.72	87.2	86.5	WNW	0.1					
7 ,,	.730	.835	85.8	79.0	6.8	76.5	.75	86.4	86.2	W	0.1					
8 ,,	.744	.884	85.2	78.0	7.2	75.2	.73	85.7	86.1	,,	0.2					
9 ,,	.762	.898	84.8	78.0	6.8	75.4	.74	85.2	86.0	W b N	0.1					
10 ,,	.769	.894	84.6	78.2	6.4	75.8	.76	85.1	85.9	,,	0.1					
11 ,,	.765	.880	84.4	78.4	6.0	76.1	.77	84.8	85.8	,,	0.1					
May 25th-Midnight	.730	.817	84.2	79.0	5.2	77.1	.80	84.6	85.5	WNW	0.0		Pos.	1		Above 10m.
1 a. m.	.722	.819	84.0	78.7	5.3	76.7	.80	84.6	85.4	,,	0.0		Pos.	1		4·50
2 ,,	.705	.788	83.8	79.0	4.8	77.2	.81	84.3	85.4	,,	0.0		Pos.	1		0.45
3 ,,	.693	.793	83.5	78.5	5.0	76.6	.81	84.2	85.3	,,	0.0					
4 ,,	.690	.794	83.4	78.4	5.0	76.5	.80	84.1	85.3	SW b W	0.0					
5 ,,	.698	.791	83.2	78.6	4.6	76.9	.82	84.0	85.2	,,	0.0					
6 ,,	.725	.803	83.4	79.0	4.4	77.4	.83	84.2	85.1	,,	0.0					
7 ,,	.742	.977	83.8	75.2	8.6	71.6	.68	83.6	85.0	NW b W	0.2	0.02				
8 ,,	.757	.876	84.0	78.2	5.8	76.0	.78	84.5	85.0	,,	0.0					
9 ,,	.756	.821	85.4	79.8	5.6	77.8	.79	85.4	85.2	SSW	0.0					
10 ,,	.756	.832	87.0	80.0	7.0	77.5	.74	87.6	85.3	W b N	0.1					
11 ,,	.744	.807	89.0	80.8	8.2	77.9	.71	88.8	85.6	WNW	0.1					
Noon.	.737	.800	89.7	81.0	8.7	77.9	.69	89.4	85.8	WSW	0.1					
1 p. m.	.708	.763	89.4	81.1	8.3	78.2	.71	89.4	85.9	,,	0.1					
2 ,,	.680	.733	89.2	81.1	8.1	78·2	.71	89.3	86.1	,,	0.1					
3 ,,	.652	.700	89.2	81.2	8.0	78.4	.71	89.3	86.0	W	0.1					
4 ,,	.643	.717	88.3	80.3	8.0	77.5	.71	88.8	86.1	,,	0.1					
5 ,,	.663	.740	87.8	80.2	7.6	77.4	.72	88.0	86.1	,,	0.1					
6 ,,	.684	.789	85.8	79.0	6.8	76.5	.75	86.2	86.0	WSW	0.0					
7 ,,	.714	.810	85.0	79.0	6.0	76.8	.77	85.2	85.7	W	0.0					
8 ,,	.732	.821	84.4	79.0	5.4	77.0	.79	84.4	85.6	,,	0.0					
9 ,,	.748	.836	82.4	76.0	6.4	73.4	.75	82.5	85.4	ESE	0.3					
10 ,,	.749	.857	80.6	75.0	5.6	72.7	.78	81.2	85.1	SE	0.3		Pos.	6		Above 10m.
11 ,,	.730	.855	80.2	77.0	3.2	75.8	.87	80.8	84.8	S	0.3		Neg.	Out of Sc.	Out of Sc.	Instantly.
May 26th-Midnight	.711	.801	80.6	78.0	2.6	77.0	.89	81.2	84.6	S	0.4		Neg.	1		Above 10m.
1 a. m.	.691	.832	80.4	77.5	2.9	75.2	.88	81.0	84.5	S b E	0.3		Neg.	1		Above 10m.
2 ,,	.691	.828	80.0	77.5	2.5	75.3	.89	80.4	84.4	SSE	0.3		Neg.	1		Above 10m.
3 ,,	.679	.806	79.3	76.7	2.6	75.7	.89	79.7	84.1	,,	0.2					
4 ,,	.674	.814	79.4	76.4	3.0	75.2	.88	80.4	84.0	S b E	0.1					
5 ,,	.676	.794	79.5	77.0	2.5	76.0	.90	80.2	84.0	,,	0.0					
6 ,,	.702	.809	80.0	77.4	2.6	76.4	.89	80.4	83.9	SE	0.1	None.			None.	
7 ,,	.728	.856	84.5	78.1	6.4	75.6	.75	83.5	84.0	,,	0.2					
8 ,,	.730	.839	85.4	78.8	6.6	76.3	.75	85.4	84.4	,,	0.2					
9 ,,	.744	.873	85.4	79.1	9.3	75.6	.67	88.3	84.7	,,	0.2					
10 ,,	.732	.837	89.6	80.0	9.6	76.5	.67	88.6	85.0	SSE	0.0					
11 ,,	.726	.837	91.0	80.2	10.8	76.3	.63	89.2	85.2	SW	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: cirri; cirro-cumuli; cumuli; cirro-strati; cumulo-strati; and nimbi.	
2	L	Light scattered about hor., moving SE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°5 and 84°7. On this day the Wind blew in a circular motion.
2	C	Light scattered about, moving SE.	
1	C	Light scattered here and there, moving SE.	
2	C	Light in E hem. and about zth.	
3	C	Light scattered around hor. and about zth.	
3	N	Light scattered about, moving E.	
2	N	Light scattered about, moving N.	
1	N	scattered along E hor., otherwise clear.	
1	N	" " " " "	
2	L	scattered along E hor.; a few in E and SE.	
3	L	scattered around hor. and about zth., moving ENE; a few in E.	
1	L	scattered along E hor.; a few in E.	
1	L	" " " " "	
1	C	Electrical from N to SE; along E hor.; a few in E and SE above hor.	
1	C	" " " " " " " " "	
1	C	" " " " " " " " "	
1	C	and scattered along E hor. from N to SE.	
1	L	Electrical clouds along E hor.; patches of scattered here and there.	
2	L	Electrical clouds along E hor.; scattered about, moving E.	
3	L	scattered about, moving ESE; lightning in NE hor. every minute.	
2	L	" " " " " " " "	
1	L	Light scattered around hor.	
1	L	" " "	
1	L	" " "	
		[intervals of 4m.	
8	L	Densely clouded with; a few stars dimly visible in SE; lightning in E hor. at	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°6 and 84°8. Daily fall of rain by Osler's Gauge 0.02; Maximum Tension of Electricity by Henly's Apparatus 2.0; Maximum length of Spark by Ronald's Measure 0.02. The direction of Wind was abnormal.
8	C	" " " " " " " " "	
7	C	Densely clouded with; a few stars visible here and there; lightning in E hor.	
4	C	scattered around hor. about S and SW of zth., moving NE. [at intervals of 10m.	
6	C	scattered throughout, except in zth., moving SE. [ly visible.	
8	N	Overcast with and, the lattter moving W; two faint rainbows partial-	
8	N	Overcast with and; rainbow still visible; drops of rain at 6h. 45m.	
8	N	Overcast in two strata with and; light rain at 7h. 18m.; rainbow in W.	
8	N	Overcast in two strata with and; a break in NW; thunder heard in SW.	
8	L	Overcast in two strata, the lower stratum of moving ESE; a few drops of	
7	L	Densely clouded with, and. [rain at 9h. 24m.	
7	L	in N hor.; and scattered throughout.	
8	L	along E hor.; , , and scattered throughout; moving E.	
7	C	along E hor.; scattered throughout, moving E.	
8	C	along E hor.; above SE hor.; scattered throughout, moving E.	
8	C	" " " " " " " "	
8	C	along E hor.; around hor.; scattered throughout.	
8	N	Electrical clouds along E hor.; around hor. except in NW; and	
8	N	scattered throughout.	
8	N	Overcast with; lightning in NE at intervals of 45s. [in W.	
8	N	Overcast; a few stars visible about zth.; continuous lighting in hor.; thunder	
8	L	Overcast with, a few stars dimly visible in SE; lightning in ESE hor.	
8	L	Overcast; a few stars dimly visible about zth.; rain commenced at 10h. 41m.	
8	L	Overcast; rain ceased at 11h. 30m.	
8	L	Densely clouded with.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°8 and 85°0.
4	C	scattered about, moving W.	
5	C	stattered about, moving NW.	
2	C	scattered around hor., except in SE and S.	
1	C	scattered about hor. from W to E.	
3	N	Light and scattered around hor.	
3	N	and around; a few masses of along W hor. [W. hor.	
5	N	from E to SW hor.; scattered in N hem.; a few masses of along	
2	N	scattered around hor., scattered above SE and S hor.	
2	N	" " " " " "	
2	N	" " " " " "	
4	N	and scattered about.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-Point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
May 26th—Noon.	29.717	28.804	92°0	81°0	11°0	77°1	0.63	90°8	85°5	W b N	0.1					
1 p. m.	.694	.792	93.0	81.0	12.0	76.7	.60	91.4	85.8	SW b W	0.1					
2 „	.671	.761	92.6	81.1	11.5	76.8	.62	90.6	86.1	W b S	0.1					
3 „	.632	.695	90.1	81.1	9.0	77.9	.63	89.6	86.1	W	0.1					
4 „	.621	.715	92.3	80.9	11.4	76.8	.62	90.9	86.3	W b S	0.1					
5 „	.626	.708	89.5	80.5	9.0	77.3	.68	88.9	86.3	„	0.1	None.			None.	
6 „	.639	.689	87.8	80.8	7.0	78.3	.74	87.6	86.2	„	0.1					
7 „	.660	.729	86.4	80.0	6.4	77.7	.76	86.4	86.0	WSW	0.1					
8 „	.675	.761	86.0	79.5	6.5	77.1	.76	86.2	85.9	„	0.1					
9 „	.677	.786	85.4	78.8	6.6	76.3	.75	85.5	85.8	SW b W	0.1		Pos.	1		Above 10m.
10 „	.688	.790	84.8	78.8	6.0	76.6	.77	85.2	85.7	SW	0.1		Pos.	4		4.00
11 „	.685	.777	84.6	79.0	5.6	76.9	.79	85.0	85.6	SW b W	0.1		Pos.	2		Above 10m.
May 27th—Midnight	.677	.769	84.6	79.0	5.6	76.9	.79	85.1	85.6	WSW	0.0		Pos.	3		Above 10m.
1 a. m.	.653	.751	84.4	78.8	5.6	76.7	.78	84.8	85.5	W	0.0		Neg.	Out of Sc.	26	0.30
2 „	.635	.700	84.1	79.5	4.6	77.8	.82	84.4	85.4	„	0.0		Neg.	Out of Sc.	34	0.40
3 „	.636	.750	82.8	78.0	4.8	76.1	.81	83.1	85.2	S	0.1		Neg.	Out of Sc.	40	0.15
4 „	.645	.743	81.4	78.0	3.4	76.7	.86	82.2	85.0	SE b S	0.1		Neg.	Out of Sc.	Out of Sc.	Instantly.
5 „	.650	.730	79.4	77.9	1.5	77.3	.94	80.8	84.6	NNE	0.0	0.04				
6 „	.666	.753	80.4	78.0	2.4	77.1	.90	81.2	84.6	S b E	0.1					
7 „	.670	.742	82.8	79.0	3.8	77.6	.85	84.0	84.6	S	0.1					
8 „	.668	.713	84.6	80.0	4.6	78.3	.82	85.0	84.8	SSW	0.1					
9 „	.670	.675	87.2	81.7	5.5	79.8	.79	86.9	85.2	„	0.1					
10 „	.659	.690	88.9	81.5	7.4	79.0	.73	87.9	85.4	„	0.1					
11 „	.652	.674	90.0	82.0	8.0	79.3	.72	88.8	85.6	SW b S	0.1					
Noon.	.643	.657	91.3	82.5	8.8	79.5	.69	90.7	85.8	SW	0.2					
1 p. m.	.623	.637	92.5	82.8	9.7	79.5	.67	91.3	86.2	„	0.1					
2 „	.602	.647	90.6	81.7	8.9	78.5	.69	89.6	86.4	W b N	0.1					
3 „	.568	.571	89.5	82.3	7.2	79.9	.74	89.7	86.2	WSW	0.1					
4 „	.554	.580	90.4	82.0	8.4	79.1	.70	90.1	86.5	W	0.2					
5 „	.569	.611	89.0	81.3	7.7	78.6	.72	88.6	86.4	„	0.1					
6 „	.580	.635	87.4	80.6	6.8	78.2	.75	87.2	86.2	„	0.1					
7 „	.597	.642	85.8	80.4	5.4	78.5	.80	85.8	86.0	WNW	0.2		Neg.	Out of Sc.	Out of Sc.	Instantly.
8 „	.611	.797	75.8	74.2	1.6	73.5	.93	76.8	84.7	NE b N	0.0	0.40	Neg.	Out of Sc.	40	Instantly.
9 „	.609	.739	77.8	76.2	1.6	75.6	.93	79.0	84.7	N	0.0	0.11	Neg.	Out of Sc.	Out of Sc.	Instantly.
10 „	.613	.736	78.6	76.6	2.0	75.8	.92	79.7	84.6	N b E	0.0		Neg.	2		Above 10m.
11 „	.602	.742	79.4	76.4	3.0	75.2	.88	80.2	84.5	„	0.0		Neg.	1		Above 10m.
May 28th—Midnight	.594	.705	80.4	77.4	3.0	76.3	.88	81.0	84.4	N b E	0.1		Neg.	1		Above 10m.
1 a. m.	.581	.704	80.0	77.0	3.0	75.8	.88	80.3	84.3	NE	0.1		Neg.	5		5.35
2 „	.571	.678	80.4	77.5	2.9	76.4	.88	80.9	84.2	„	0.1		Neg.	1		0.45
3 „	.564	.656	80.8	78.0	2.8	76.9	.89	81.1	84.1	„	0.1		Neg.	5		4.00
4 „	.568	.648	80.8	78.3	2.5	77.3	.90	81.2	84.0	„	0.1		Neg.	5		6.30
5 „	.572	.626	81.2	79.0	2.2	78.2	.91	81.8	84.0	„	0.0		Neg.	0		
6 „	.592	.644	81.0	79.0	2.0	78.3	.92	81.4	84.0	ENE	0.1		Neg.	10		0.48
7 „	.600	.656	81.4	79.0	2.4	78.1	.90	82.0	83.9	„	0.1		Neg.	18		1.32
8 „	.619	.655	83.1	80.0	3.4	78.8	.86	83.6	84.0	„	0.0		Neg.	11		2.07
9 „	.621	.696	85.8	81.8	4.0	79.4	.85	86.0	84.4	„	0.0		Neg.	11		3.00
10 „	.631	.681	86.6	80.5	6.1	78.3	.77	87.0	84.6	NW	0.2		Neg.	1		Above 10m.
11 „	.627	.663	88.6	81.2	7.4	78.6	.73	88.4	84.9	NW b W	0.2					
Noon.	.622	.679	90.3	81.2	8.8	78.1	.69	89.5	85.2	NNW	0.3					
1 p. m.	.598	.645	90.7	81.6	9.1	78.4	.68	90.2	85.5	WNW	0.3				None.	
2 „	.588	.636	90.8	82.0	8.8	78.4	.69	90.5	85.7	„	0.3		Neg.	2		Above 10m.
3 „	.573	.613	91.6	82.0	9.6	78.4	.67	90.7	85.9	„	0.3					
4 „	.563	.620	89.2	81.1	8.1	78.7	.71	88.4	85.9	W	0.1					
5 „	.565	.609	88.0	81.0	7.0	78.1	.74	87.8	85.7	„	0.2					
6 „	.573	.626	86.5	80.4	6.1	78.5	.77	86.0	85.7	„	0.1					
7 „	.604	.661	85.3	80.0	5.3	78.2	.80	85.2	85.6	„	0.2					
8 „	.625	.677	84.9	80.0	4.9	78.1	.81	86.0	85.5	W b S	0.1		Pos.	2		Above 10m.
9 „	.644	.694	84.6	80.0	4.6	78.3	.83	85.2	85.4	W	0.1		Pos.	1		Above 10m.
10 „	.655	.711	84.4	79.8	4.6	78.1	.82	85.2	85.3	WSW	0.2		Pos.	2		Above 10m.
11 „	.662	.716	84.0	79.7	4.3	78.2	.83	85.0	85.3	W	0.3		Pos.	2		Above 10m.

Drops of rain at times.

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩∪ cumulo-strati; and ≀∪ nimbi.	
8	N	∩ in E and SE hor.; otherwise clouded with ≀ and ≀≀.	
7	C	" " " " "	
7	C	" " " " "	
5	C	∩ around hor.; ≀ and dense ≀≀ scattered about.	
4	C	" " " " "	
6	L	∩∪ in N and NE; ≀≀ around hor.; ≀ and ≀≀ scattered about.	
7	L	Densely clouded with ≀≀, ≀≀, and ≀; ≀≀ moving E. [lightning in E hor.	
8	L	Overcast with ≀≀ and ≀≀, the former moving E; a few ≀ in E and SE;	
8	L	Overcast with ≀≀; continuous lightning in NE, E, and SE hor.	
7	L	Overcast with ≀≀; a few stars dimly visible in N and NE.	
3	L	≀≀ scattered around hor., except in NW.	
4	L	≀≀ scattered about.	
4	C	≀≀ scattered about; a few drops of rain at 20m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°8 and 85°8. Daily fall of rain by Osler's Gauge 0.58.; Maximum Tension of Electricity, by Henly's Apparatus, 8.0.; Maximum length of Spark by Ronald's Measure 0.06; the morning minimum and maximum of Barometer occurred a little earlier, and at 8 A. M. and 9 P. M. it fell a little instead of rising; at 4 P. M. its reading was 29.554, the lowest during the month, and about 0.100in. lower than the Normal Mean. At 8 A. M. the Temperature of Evaporation was 74.2, the lowest in the month. At 8 P. M. the Temperature of Free Air was 75.8, the lowest during the month, and its daily range was 16.7, the greatest in the month.
6	C	≀≀ scattered about; lightning in hor. from NE to SW.	
5	C	≀≀ scattered about; lightning in all parts of hor; thunder in Nheard at 2h.25m.	
8	C	Densely clouded with ≀≀; lightning in SE and S; thunder in NE; drops of rain.	
8	C	Overcast with ≀≀; lightning in NE; thunder in N and NE; raining lightly.	
8	C	∩ in NE and N; ≀≀ scattered; lightning in NE; and thunder in N and NE;	
8	C	∩ in NE and N; ≀≀ scattered about, moving N. [rain ceased at 5h. 34m.	
8	N	≀≀ around hor.; ≀ and ≀≀ scattered throughout.	
8	N	≀≀ scattered about, moving NNE.	
4	L	Light ≀≀ around hor.; ≀ and ≀≀ scattered about.	
3	L	" " " " "	
4	L	∩ from N to SE hor.; ≀≀ in W, NW, and N hor.; ≀ scattered about rest of hor.	
4	L	" " " " " " [drops of rain.	
6	C	∩ in hor. from N to SE; ≀≀ scattered about rather densely; ≀ in SE; a few	
7	C	≀≀ scattered throughout, moving ENE; ≀ in E, SE, and N; a few drops of rain	
5	C	≀≀ scattered about, moving ENE; ≀ in E and NE above hor. [at 2h. 5m.	
8	C	Overcast with ≀≀, moving E.	
8	N	Overcast in two strata, the lower stratum of ≀≀, moving E.	
8	N	≀≀ around hor., moving E; ≀ scattered throughout.	
8	N	Overcast; continuous lightning along E; an arched squall from E, at 7h. 35m.	
8	N	Overcast; raining; lightning in N and NE; thunder in NW of zth.; rain	
8	L	Overcast; continuous lightning in SE, S, and SW. [ceased at 8h. 30m.	
8	L	Overcast; lightning in S every 1m.; a few stars dimly visible in SW.	
6	L	≀≀ scattered about, whose motion was not apparent.	
8	L	Overcast with ≀≀, moving ESE; a few stars visible about W of zth.	On the 27th, at about 7h. 30m. a squall came from E, the Wind suddenly veered from WNW to ENE, and began to blow with a force of about 6 lbs.; this squall lasted for about 15m. The display of thunder and lightning was great.
8	C	Overcast in two strata, the lower stratum of ≀≀, moving NW.	
8	C	Overcast with ≀≀, moving W; a few drops of rain at 2h. 15m.	
8	C	Overcast; a few stars visible to S of zth.	
8	C	Overcast with ≀≀, moving W.	
7	N	≀≀ scattered throughout, moving E.	
8	N	Densely clouded with ≀≀, moving E.	
8	N	" " " "	
8	N	" " " "	
8	L	Densely clouded with ≀≀, moving SE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°7 and 85°0. On the 27th and 28th Wind blew in a circular motion.
7	L	Densely clouded with ≀≀, moving E; breaks in NW and W.	
4	L	∩∪ in NE hor.; ≀ in N and NW hor.; ≀≀ scattered about hor., moving E.	
5	L	∩ along E hor.; ≀ around hor., except in S; scud floating E. [around hor.	
5	C	Light ≀ in N and NE above hor.; ≀≀ scattered about, moving ESE; haze	
4	C	≀ in N and NE above hor.; ≀≀ scattered about, moving E; haze along E hor.	
3	C	≀≀ scattered about; haze around hor.	
7	C	" " " "	
6	G	" " " "	
4	G	≀≀ scattered about, moving ESE; hazy; a few drops of rain at 6h. 27m.	
7	G	Densely clouded with ≀≀, moving ESE.	
6	G	" " " " "	
4	L	≀≀ scattered about hor., moving ESE.	
5	L	≀≀ scattered about hor., moving E.	
2	L	" " " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 feet in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after the charge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
May 29th-Midnight	29.651	28.740	83°6	78°8	4°8	77°0	0.81	84°6	85°2	W b S	0.4		Neg.	2		Above 10m.
1 a. m.	.627	.715	83.5	78.8	4.7	77.1	.82	84.5	85.2	WSW	0.6					
2 „	.620	.661	83.4	79.9	3.5	78.6	.86	84.3	85.1	W	0.4					
3 „	.621	.680	83.6	79.5	4.1	78.0	.84	84.6	85.1	„	0.1					
4 „	.625	.681	83.3	79.5	3.8	78.1	.85	84.2	85.1	W b S	0.1		Neg.	1		Above 10m.
5 „	.638	.693	83.3	79.5	3.8	78.2	.85	84.2	84.8	WSW	0.1		Neg.	1		Above 10m.
6 „	.660	.738	83.4	79.0	4.4	77.4	.83	84.0	84.7	W b S	0.2		Neg.	1		Above 10m.
7 „	.687	.761	84.9	79.5	5.4	77.5	.79	85.8	84.9	W	0.2		Neg.	1		Above 10m.
8 „	.706	.765	87.8	80.6	7.2	78.0	.73	88.4	85.3	„	0.2		Neg.	1		Above 10m.
9 „	.714	.756	89.4	81.4	8.0	78.6	.71	90.2	85.5	„	0.3		Neg.	1		Above 10m.
10 „	.719	.757	91.5	82.0	9.5	78.7	.67	91.6	85.9	SW b W	0.2					
11 „	.713	.812	92.2	81.5	10.7	76.7	.64	92.2	86.1	WSW	0.2					
Noon.	.706	.757	92.7	82.0	10.7	78.3	.64	92.6	86.3	„	0.3	None.			None.	
1 p. m.	.692	.737	93.6	82.3	11.3	78.4	.63	93.1	86.6	W b S	0.1					
2 „	.676	.727	93.9	82.3	11.6	78.3	.62	93.2	86.8	W	0.1					
3 „	.661	.729	93.4	81.8	11.6	77.7	.61	93.1	86.9	W b S	0.1					
4 „	.654	.729	92.5	81.4	11.1	77.5	.63	92.0	87.0	W	0.1					
5 „	.647	.687	90.7	81.1	9.6	78.7	.67	90.7	87.0	„	0.1					
6 „	.655	.706	87.9	80.8	7.1	78.3	.74	88.6	86.7	„	0.1		Neg.	1		Above 10m.
7 „	.673	.744	86.5	80.0	6.5	77.6	.76	87.2	86.5	W b S	0.1		Neg.	1		Above 10m.
8 „	.698	.762	85.8	80.0	5.8	77.9	.78	86.3	86.3	„	0.2					
9 „	.704	.768	85.2	79.8	5.4	77.9	.79	86.0	86.3	„	0.1					
10 „	.707	.769	85.0	79.8	5.2	77.9	.80	85.8	86.2	WSW	0.2					
11 „	.704	.770	84.6	79.6	5.0	77.8	.81	85.2	86.0	SW	0.1					
May 30th-Midnight	.689	.758	84.0	79.4	4.6	77.7	.82	84.9	85.9	SW	0.1					
1 a. m.	.668	.747	83.8	79.1	4.7	77.4	.82	84.7	85.8	WSW	0.1					
2 „	.663	.744	83.6	79.0	4.6	77.3	.82	84.3	85.7	„	0.2					
3 „	.662	.743	83.6	79.0	4.6	77.3	.82	84.3	85.6	W b S	0.1					
4 „	.667	.742	83.2	79.0	4.2	77.5	.83	84.1	85.5	„	0.1					
5 „	.673	.747	83.0	79.0	4.0	77.5	.84	84.0	85.3	„	0.1					
6 „	.700	.777	83.3	79.0	4.3	77.4	.83	84.2	85.2	„	0.2					
7 „	.723	.811	85.0	79.2	5.8	77.1	.78	86.1	85.2	W	0.1					
8 „	.734	.802	87.0	80.2	6.8	77.7	.75	87.8	85.5	„	0.2					
9 „	.743	.841	89.0	80.0	9.0	76.7	.68	89.2	85.8	„	0.1					
10 „	.739	.822	90.0	80.6	9.4	77.2	.67	89.8	86.0	„	0.1					
11 „	.725	.814	91.4	80.8	10.6	77.0	.64	91.2	86.2	„	0.1	None.	Pos.	1	None.	None.
Noon.	.715	.782	92.6	81.6	11.0	77.8	.63	91.9	86.5	WSW	0.2		Pos.	1		
1 p. m.	.696	.759	93.0	81.8	11.2	77.9	.62	92.6	86.7	W	0.1		Pos.	1	None.	
2 „	.680	.777	93.3	81.1	12.2	76.7	.60	92.9	86.9	„	0.1		Pos.	1		
3 „	.668	.767	92.7	80.9	11.8	76.7	.61	92.2	87.0	„	0.1					
4 „	.658	.734	92.6	81.4	11.2	77.5	.62	92.1	87.0	„	0.1					
5 „	.658	.752	90.5	80.5	10.0	76.8	.66	90.3	87.1	„	0.2					
6 „	.665	.750	87.8	80.0	7.8	77.2	.72	88.2	86.7	„	0.1					
7 „	.670	.750	86.2	79.7	6.5	77.3	.76	86.7	86.5	WNW	0.1					
8 „	.690	.786	85.4	79.1	6.3	76.8	.76	86.2	86.3	W b S	0.1					
9 „	.698	.802	85.0	78.8	6.2	76.5	.76	85.8	86.3	„	0.1					
10 „	.703	.795	84.6	79.0	5.6	76.9	.79	85.5	86.2	„	0.1					
11 „	.692	.811	84.0	78.2	5.8	76.0	.78	85.2	86.0	W b N	0.1					
June 1st-Midnight	.681	.798	83.8	78.2	5.6	76.0	.78	84.4	85.9	W	0.2					
1 a. m.	.672	.786	83.2	78.1	5.1	76.1	.80	84.2	85.7	„	0.1					
2 „	.666	.802	83.0	77.5	5.5	75.4	.79	83.9	85.5	„	0.1					
3 „	.661	.786	82.7	77.7	5.0	75.8	.80	83.6	85.4	W b S	0.1					
4 „	.667	.800	82.4	77.4	5.0	75.5	.80	83.2	85.4	WSW	0.1					
5 „	.670	.779	82.4	78.0	4.4	76.3	.83	83.4	85.3	W	0.1					
6 „	.702	.815	82.7	78.0	4.7	76.2	.82	84.0	85.2	W b N	0.1	None.	None.	None.	None.	None.
7 „	.723	.835	84.6	78.5	6.1	76.2	.77	85.8	85.1	„	0.1					
8 „	.736	.858	86.6	78.8	7.8	75.9	.71	87.2	85.3	„	0.1					
9 „	.738	.890	87.4	78.3	9.1	74.8	.67	87.6	85.6	„	0.1					
10 „	.747	.876	89.6	79.4	10.2	75.6	.65	89.0	85.8	W	0.1					
11 „	.736	.863	91.0	79.7	11.3	75.5	.62	90.5	86.0	„	0.1					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ *cirri*; ≤≤ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩⌣ cumulo-strati; and ≤⌣ nimbi.	
2	L	≤⌣ scattered about hor., moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°6 and 85°0. At 2 P. M. the Temperature of External and Free Air was 93°9, the greatest during the month.
3	C	" " " "	
5	C	" " " "	
7	C	" " " "	
5	C	≤⌣ scattered about hor., moving ENE. [hor.	
6	G	≤⌣ around hor.; ≤ scattered throughout, the former moving E; haze around	
6	G	≤⌣ scattered about hor.; ≤ about zth.; haze around hor.	
5	G	≤⌣ around hor.; ≤ scattered about; haze around hor.	
4	G	≤ and ≤⌣ scattered about, the latter moving E; haze around hor.	
5	L	≤ and ≤≤ scattered in SE, SW, and in N hem.; ≤⌣ in NE and E hor.	
6	T	Light ≤⌣ in S and SW; ≤≤ to S of zth.; ≤ scattered about.	
6	L	∩ in NE hor.; ≤ in E and S; ≤ scattered about.	
5	L	∩⌣ in NE hor.; ≤ and ≤⌣ scattered about, the latter moving E.	
4	C	Light ≤⌣ scattered about; ≤ in NW and SE above hor.	
2	C		
2	C	" " " " "	
		" " " " "	
1	C	≤⌣ and ≤ along E hor.	
2	G	≤ in E and W of zth.; ≤⌣ scattered about; haze along E hor.	
2	G	≤⌣ scattered about, moving E; ≤ here and there.	
7	G	Densely clouded with ≤⌣; moving E; haze along E hor.	
6	G	" " " " "	
3	L	≤⌣ scattered about, moving NE.	
5	L	≤⌣ scattered about, moving NE; ≤≤ in W and NW above hor.; a few drops	
2	L	Light ≤⌣ scattered about hor. [of rain at 10h. 18m.	
2	L	Light ≤⌣ scattered about hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°8 and 85°2. On this day the Daily Range of Barometer was 0.85, the least during the month.
3	C	Light ≤⌣ scattered about, moving E.	
2	C	Light ≤⌣ scattered about, moving ENE.	
2	C	" " " " "	
2	C	Light ≤⌣ scattered about, moving E.	
3	N	Partially clouded with ≤⌣, moving E.	
8	N	Densely clouded clouded with ≤⌣ and ≤, the latter moving E.	
8	N	≤⌣ along E hor., *otherwise clouded with* ≤.	
7	N	≤⌣ along E hor.; ≤ scattered in WNW and about zth.	
4	L	≤⌣ scattered along E hor.; ≤ scattered about zth.	
3	L	≤⌣ scattered around hor. except in zth.; ≤ scattered about zth.	
2	L	≤⌣ scattered about hor. from NW to SE; ≤ scattered about zth.	
2	L	≤⌣ scattered about, moving E; a few ≤ in SW.	
2	C	≤⌣ scattered around hor., moving E; light ≤ in SW.	
2	C	≤⌣ scattered about moving E; haze from N to SW hor.	
2	C	" " " " " " "	
1	C	≤⌣ from N to SE hor.; haze around hor.	
2	N	∩⌣ scatered about, moving E.	
4	N	" " "	
4	N	" " "	
4	N	" " "	
2	L	≤⌣ scattered around hor., moving NE.	
2	L	≤⌣ scattered around hor. and a few patches about zth., moving E.	
1	L	Pieces of ≤⌣ scattered about, moving E.	
2	L	≤⌣ scattered about, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°2 and 85°2.
1	C	" " "	
1	C	" " "	
0	C	A few masses of ≤⌣ along E hor.	
0	C	" " " "	
3	N	≤⌣ scattered about, moving E.	
3	N	" " "	
3	N	" " "	
3	N	≤⌣ and ≤ scattered about, moving E.	
6	L	∩⌣ in NE hor.; ≤⌣ along E hor; ≤ scattered throughout.	
6	L	" " " " " " "	
4	L	∩⌣ in E hem.; ≤⌣ scattered about, moving E.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
June 1st-Noon.	29.724	28.851	91°7	80°0	11°7	75°7	0.61	90°8	86°2	W	0.1					
1 p. m.	.705	.811	92.1	80.6	11.5	76.4	.61	91.4	86.4	„	0.1					
2 „	.686	.814	92.6	80.2	12.4	75.6	.59	92.2	86.6	„	0.1					
3 „	.669	.788	92.0	81.0	11.0	76.0	.63	91.9	86.7	„	0.1					
4 „	.660	.769	92.0	80.5	11.5	76.3	.61	91.8	86.7	„	0.1		Pos.	1		Above 10m.
5 „	.655	.774	89.8	79.7	10.1	76.0	.65	89.8	86.7	„	0.1					
6 „	.677	.823	87.2	78.4	8.8	75.0	.68	87.4	86.5	„	0.1	None.			None.	
7 „	.680	.812	85.6	78.3	7.3	75.5	.73	86.2	86.3	„	0.1					
8 „	.696	.832	84.8	78.0	6.8	75.4	.74	85.8	86.0	W b S	0.1					
9 „	.702	.825	84.4	78.2	6.2	75.8	.76	85.2	86.0	„	0.0					
10 „	.703	.837	83.9	77.8	6.1	75.4	.77	84.5	85.8	„	0.1					
11 „	.684	.836	83.4	77.2	6.2	74.8	.76	84.2	85.6	„	0.0					
June 2nd-Midnight	.663	.755	82.8	78.5	4.3	76.9	.83	83.8	85.4	W b N	0.1		Pos.	2		0.50
1 a. m.	.653	.765	82.6	78.0	4.6	76.2	.82	83.6	85.4	„	0.0		Pos.	8		2.00
2 „	.647	.731	82.4	78.6	3.8	77.2	.85	83.2	85.3	„	0.0		Pos.	4		2.00
3 „	.634	.711	81.8	78.6	3.2	77.4	.87	82.8	85.1	S b W	0.1		Pos.	3		3.00
4 „	.648	.726	81.0	78.4	2.6	77.4	.89	81.7	84.9	E b S	0.2		Pos.	3		1.30
5 „	.650	.734	80.8	78.2	2.6	77.2	.89	81.6	84.8	„	0.2		Pos.	2		Above 10m.
6 „	.670	.741	81.2	78.6	2.6	77.6	.89	82.2	84.7	„	0.0		Pos.	3		0.35
7 „	.677	.750	83.3	79.1	4.2	77.6	.83	84.2	84.9	„	0.0		Pos.	5		2.30
8 „	.696	.743	85.3	80.3	5.0	78.4	.81	86.2	85.1	„	0.0		Pos.	3		1.45
9 „	.704	.741	86.6	80.8	5.8	78.8	.78	88.0	85.3	„	0.0		Pos.	4		1.04
10 „	.705	.734	87.8	81.3	6.5	79.0	.76	88.6	85.5	„	0.0		Pos.	2		2.08
11 „	.684	.743	89.0	80.9	8.1	78.0	.71	90.0	85.7	„	0.1		Pos.	1		4.00
Noon.	.667	.702	90.8	81.9	8.9	78.8	.69	91.2	86.0	NW	0.1		Pos.	1		Above 10m.
1 p. m.	.640	.720	92.2	81.2	11.0	77.3	.63	92.4	86.3	„	0.4			0		
2 „	.613	.712	87.6	79.6	8.0	76.8	.71	88.2	86.1	NW b W	0.3		Neg.	Out of Sc.	Out of Sc.	Instantly.
3 „	.624	.668	84.8	80.2	4.6	78.5	.82	85.6	85.8	WSW	0.1		Neg.	Out of Sc.	Out of Sc.	Instantly.
4 „	.626	.710	82.4	78.6	3.8	77.2	.85	82.9	85.5	„	0.5	0.05	Neg.	Out of Sc.	Out of Sc.	Instantly.
5 „	.638	.733	79.6	77.6	2.0	76.8	.92	80.7	85.0	„	0.3	0.13	Neg.	Out of Sc.	Out of Sc.	Instantly.
6 „	.682	.788	79.2	77.2	2.0	76.4	.92	80.5	84.7	W b S	0.1	0.17	Neg.	Out of Sc.	Out of Sc.	Instantly.
7 „	.684	.811	78.6	76.5	2.1	75.7	.91	80.0	84.4	WNW	0.1	0.06		0		
8 „	.703	.815	79.0	77.0	2.0	76.2	.92	80.1	84.1	NW b W	0.2	0.01		0		
9 „	.701	.814	79.1	77.0	2.1	76.2	.91	80.3	84.1	„	0.0			0		
10 „	.685	.799	79.2	77.0	2.2	76.2	.91	80.0	84.0	„	0.0		Pos.	1		Above 10m.
11 „	.673	.763	79.4	77.4	2.0	77.0	.92	81.0	83.9	„	0.0			0		
June 3rd-Midnight	.653	.741	79.4	77.8	1.6	77.2	.93	80.6	83.9	NW b W	0.0			0		
1 a. m.	.643	.753	79.6	77.2	2.4	76.3	.90	80.2	83.9	„	0.0			0		
2 „	.635	.718	80.0	78.0	2.0	77.2	.92	80.8	83.8	NNW	0.1			0		
3 „	.619	.719	79.4	77.4	2.0	76.6	.92	80.6	83.7	SE b E	0.1		Neg.	1		Above 10m.
4 „	.625	.731	79.2	77.2	2.0	76.4	.92	80.2	83.5	SE b S	0.2		Neg.	1		Above 10m.
5 „	.647	.743	79.4	77.5	1.9	76.8	.92	80.5	83.4	S	0.1		Neg.	4		2.45
6 „	.673	.766	80.2	77.8	2.4	76.9	.90	81.8	83.5	S b W	0.1		Neg.	6		1.50
7 „	.700	.814	81.3	77.6	3.7	76.1	.85	82.8	83.5	S	0.0		Neg.	1		Above 10m.
8 „	.718	.847	82.4	77.5	4.9	75.6	.81	83.0	83.5	WNW	0.0		Neg.	1		Above 10m.
9 „	.733	.786	83.4	79.6	3.8	78.2	.85	84.2	83.6	SW b W	0.1		Neg.	1		Above 10m.
10 „	.730	.750	84.8	80.0	4.8	79.3	.81	85.0	84.0	„	0.1			0		
11 „	.722	.773	86.3	80.4	5.9	78.3	.78	86.6	84.3	SW	0.2		Neg.	1		Above 10m.
Noon.	.714	.788	86.1	79.8	6.3	77.5	.76	86.8	84.5	„	0.2		Neg.	2		4.40
1 p. m.	.703	.794	87.6	79.8	7.8	76.9	.72	87.6	84.7	SW b S	0.3		Neg.	1		Above 10m.
2 „	.687	.780	88.5	80.0	8.5	76.9	.70	88.4	84.9	WSW	0.2	Drops of rain at times.	Neg.	5	None.	3.00
3 „	.674	.750	87.7	80.2	7.5	77.5	.73	88.2	84.9	WNW	0.3		Neg.	1		Above 10m.
4 „	.667	.809	86.5	78.3	8.2	75.1	.70	86.4	84.9	NW b W	0.1		Neg.	1		Above 10m.
5 „	.668	.811	85.6	78.0	7.6	75.1	.72	85.7	84.8	W b N	0.1			0		
6 „	.681	.832	84.0	77.4	6.6	74.8	.75	84.4	84.6	W b S	0.0		Neg.	1		Above 10m.
7 „	.713	.851	83.2	77.5	5.7	75.3	.78	84.0	84.5	W S W	0.0			0		
8 „	.718	.860	82.7	78.0	4.7	75.1	.82	83.4	84.4	„	0.0		Neg.	1		Above 10m.
9 „	.736	.819	82.7	78.7	4.0	77.2	.84	83.4	84.3	„	0.1			0		
10 „	.728	.859	82.2	77.4	4.8	75.5	.81	83.0	84.2	S b W	0.0			0		
11 „	.710	.830	81.9	77.6	4.3	75.9	.83	82.8	84.1	„	0.0			0		

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤≤ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩ cumulo-strati; and ≤ nimbi.	
2	C	∩ in N and NE; ≤≤ and ≤ around hor., the former moving E.	
3	C	∩ in E hem.; ≤≤ scattered about, moving E; ≤ around hor.	
3	C	≤≤ around hor.; ≤ from NW to SW hor.; a few patches of ≤≤ about zth.	
4	C	≤ and ≤≤ scattered in W hem.; ≤≤ scattered about, moving E.	
3	N	≤≤ along E hor.; ≤≤ in W, moving E.	
2	N	≤≤ along E hor.; ≤≤ scattered about, moving E. [moving E.	
3	N	∩ in SE; ≤≤ in N and NE hor.; a few ≤ about zth.; ≤≤ scattered about,	
2	N	≤≤ and ≤ around hor.; ≤≤ scattered about, moving SE.	
3	N	" " " " " "	
3	N	" " " " " "	
4	N	≤≤ scattered about, moving E.	
3	N	≤≤ along E hor.; ≤ scattered about hor.	
8	N	Overcast with ≤≤ in two strata, the lower moving SE; a few stars dimly visible.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°9 and 85°2. Daily fall of rain by Osler's Gauge 0.44; Maximum Tension of Electricity by Henly's Apparatus 14.0; Maximum length of Spark by Ronald's Measure 0.17; the Temperature of Evaporation at noon was 81°9, the highest in the month. Daily range of Air Thermometer was 13°6; the greatest during the month. Wind blew in a retrograde circular motion.
8	L	Overcast with ≤≤ moving SE; a few stars dimly visible in S.	
8	L	Overcast in two strata, the lower stratum of ≤≤, moving SE.	
7	L	Densely clouded with ≤≤ moving SE; breaks in NW of zth.	
3	L	≤≤ scattered about hor., moving E.	
6	L	≤≤ around hor.; ≤≤ scattered about, moving W.	
4	C	≤≤ around hor., except in E, SE, and S; ≤≤ in W of zth.; ≤ scattered about.	
3	C	≤≤ in hor. as before; ≤ scattered about.	
4	C	≤≤ scattered about, moving SSE; ≤ and ≤≤ to E and SE of zth.	
8	N	Densely clouded with ≤≤ and ≤≤ both moving E.	
8	N	Overcast with ≤≤ and ≤≤, the latter moving SE.	
7	N	Densely clouded with ≤≤ and ≤≤, the former moving SE.	
4	N	∩ along E hor., ≤≤ around hor; and ≤≤ scattered about, moving NW.	
5	L	Electrical ∩ around hor.; ≤≤ in E and NE; ≤≤ scattered about, thunder in N.	
8	L	Overcast with ≤≤ in two strata; thunder in N; light rain at 2h. 7m.	
8	L	Clouded as before; thunder in N and NE; lighting E of zth.; rain from 3h. 5m.	
8	L	Overcast with ≤≤ in two strata; thunder in W and lighting in E & NE; light	
8	C	Clouded as before; raining; continuous thunder and lightning in E. [rain.	
8	C	Overcast; thunder about zth.; lighting in E; raining lightly.	
8	C	Overcast; rain ceased at 7h 45m. [hor.	
8	C	Overcast in two strata, the lower stratum of ≤≤, moving E; a few ≤ around	
8	H	Clouded as before; light rain at 9h. which ceased at 9h. 15m.	
8	H	Clouded as at 9 P. M. but the motion of ≤≤ was NW.	
8	H	Overcast with ≤≤ moving W.	
8	H	Overcast with ≤≤ moving W.	Mean daily Temperature of Ground 20 and 60 inches below its surface 85°0 and 85°2. On this day Wind blew in a direct circular motion.
8	L	Overcast; a few stars visible about zth.	
6	L	≤≤ scattered about, moving NE.	
2	L	≤≤ scattered around hor.	
1	L	" " "	
3	C	≤≤ around hor; SW and W; ≤ scattered in NE.	
7	C	≤≤ around hor; ≤ scattered throughout; fog along E hor.	
7	C	∩ along W hor.; ≤≤ in S; ≤ scattered about; fog along E hor.	
7	C	Densely clouded with ≤≤, moving NE; light rain at 8h. 26m.	
7	H	∩ from NW to SE hor.; ≤≤ scattered throughout, moving E.	
8	H	" " " " " "	
8	H	" " " " " " [falling.	
8	H	∩ from NW to SE hor.; ≤≤ scattered throughout, moving E; drops of rain	
8	L	∩ from W to E hor., otherwise clouded with ≤≤, ≤≤, and ≤;	
7	L	≤≤ and ∩ scattered throughout, the former moving NE.	
5	L	∩ scattered throughout; ≤≤ in W; ≤≤ in E hem., moving NE.	
6	L	∩ and ≤≤ scattered throughout, the latter moving E.	
6	C	∩ scattered throughout, a few patches of ≤≤ floating here and there.	
7	C	≤≤ and ≤ scattered throughout. [visibly.	
8	C	Light ≤ around hor.; ≤≤ scattered about; ≤≤ in W hem; a few stars dimly	
6	C	Light ≤ and ≤≤ scattered throughout; a few patches of ≤≤ about zth.; a	
7	H	Densely clouded with ≤≤ and ≤. [lunar-halo.	
2	H	≤≤ around hor.; ≤ scattered about.	
3	H	Clouded as before; a lunar-halo.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
June 4th-Midnight	29.690	28.799	82°0	77°9	4°1	76°3	0.84	83°0	84°0	SSW	0.0					
1 a. m.	.670	.767	82.0	78.2	3.8	76.7	.85	82.8	84.1	„	0.1					
2 „	.655	.779	81.6	77.4	4.2	75.8	.83	82.7	84.0	„	0.1					
3 „	.648	.723	81.6	78.6	3.8	77.5	.88	82.6	84.0	S	0.2					
4 „	.652	.748	81.2	78.0	3.2	76.8	.87	82.4	83.9	SSW	0.1					
5 „	.671	.803	80.4	76.9	3.5	75.5	.83	81.7	83.7	SW b W	0.1		Pos.	1		2.0
6 „	.685	.898	79.9	74.7	5.2	72.5	.79	81.3	83.5	SW	0.1					
7 „	.710	.824	82.8	78.0	4.8	76.1	.81	83.9	83.7	SW b S	0.1					
8 „	.719	.786	84.7	79.6	5.1	77.8	.79	84.8	84.0	SSW	0.1					
9 „	.732	.772	83.7	80.0	3.7	78.7	.85	84.4	84.0	S b E	0.1					
10 „	.737	.804	87.8	80.4	7.4	77.8	.73	87.2	84.4	S	0.1	Immeasurable.				
11 „	.729	.809	89.7	80.6	9.1	77.3	.68	88.6	84.8	S b W	0.1					
Noon.	.718	.797	89.6	80.6	9.0	77.4	.68	88.3	84.9	„	0.1				None.	
1 p. m.	.708	.865	89.8	78.8	11.0	74.6	.62	89.2	85.1	WSW	0.1					
2 „	.692	.839	89.6	79.0	10.6	75.0	.63	89.2	85.3	W b S	0.1					
3 „	.681	.866	90.8	78.4	12.4	73.5	.58	90.2	85.5	WSW	0.1					
4 „	.667	.829	91.0	79.0	12.0	74.4	.59	90.2	85.6	W	0.1					
5 „	.657	.835	89.4	78.2	11.2	73.8	.61	88.8	85.6	„	0.1					
6 „	.663	.840	86.8	77.5	9.3	73.8	.67	86.2	85.4	„	0.0					
7 „	.685	.835	84.8	77.1	7.7	74.8	.71	84.5	85.1	„	0.0					
8 „	.697	.842	84.0	77.0	7.0	75.0	.73	84.1	85.0	W b S	0.0					
9 „	.712	.880	83.2	76.5	6.7	73.8	.74	83.4	84.7	„	0.0		Pos.	1		5.0
10 „	.707	.900	82.8	76.0	6.8	73.2	.74	83.0	84.6	„	0.0		Pos.	2		3.0
11 „	.705	.881	82.3	76.3	6.0	73.9	.77	82.6	84.5	„	0.1		Pos.	1		Above 10m.
June 5th-Midnight	.691	.879	82.0	75.9	6.1	73.4	.76	82.2	84.5	WSW	0.1		Pos.	1		Above 10m.
1 a. m.	.678	.868	81.8	75.8	6.0	73.3	.77	82.2	84.4	„	0.0					
2 „	.661	.858	81.8	75.6	6.2	73.1	.76	82.0	84.2	„	0.0					
3 „	.659	.846	81.5	75.8	5.7	73.5	.78	81.7	84.1	„	0.0					
4 „	.660	.837	81.4	76.0	5.4	73.8	.79	81.7	84.0	„	0.0					
5 „	.676	.875	81.2	75.4	5.8	73.0	.77	81.6	84.0	„	0.0					
6 „	.689	.866	81.4	76.0	5.4	73.8	.79	81.7	83.9	SW b W	0.0					
7 „	.709	.881	82.7	76.5	6.2	74.0	.76	83.0	84.0	„	0.0					
8 „	.717	.858	85.6	78.1	7.5	75.2	.72	85.2	84.2	SW	0.0					
9 „	.733	.861	87.5	78.9	8.6	75.6	.69	87.6	84.4	SW by S	0.0					
10 „	.734	.872	89.6	79.2	10.4	75.3	.64	88.5	84.8	W by S	0.1					
11 „	.729	.831	91.0	80.4	10.6	76.6	.64	89.2	85.2	SW by W	0.1	None.			None.	
Noon.	.718	.841	91.4	80.0	11.4	75.8	.61	90.0	85.3	W b S	0.2					
1 p. m.	.698	.841	92.4	79.8	12.6	75.1	.58	90.6	85.7	WSW	0.2					
2 „	.686	.869	91.4	78.6	12.8	73.6	.57	90.2	85.7	„	0.1					
3 „	.666	.833	92.2	79.2	13.0	74.2	.57	91.0	86.0	„	0.2					
4 „	.659	.833	89.0	78.2	10.8	74.0	.62	87.5	86.0	W	0.3					
5 „	.667	.876	86.0	76.5	9.5	72.6	.66	85.5	85.5	NW b W	0.1					
6 „	.675	.884	84.6	76.1	8.5	72.6	.68	84.2	85.4	W b N	0.1					
7 „	.685	.854	83.8	76.9	6.9	74.1	.74	83.5	85.1	W b S	0.0					
8 „	.694	.846	83.4	77.2	6.2	74.8	.76	83.4	85.0	WSW	0.0					
9 „	.701	.855	82.8	77.0	5.8	74.7	.77	83.2	84.8	W b S	0.0					
10 „	.711	.899	82.4	76.0	6.4	73.4	.75	82.5	84.7	WSW	0.0					
11 „	.711	.916	82.1	75.5	6.6	72.8	.74	82.3	84.5	„	0.0					
June 6th-Midnight	.700	.938	81.7	74.5	7.2	71.4	.72	82.2	84.4	WSW	0.0					
1 a. m.	.692	.913	81.8	75.0	6.8	72.1	.74	82.2	84.4	„	0.1					
2 „	.684	.894	81.6	75.2	6.4	72.6	.75	82.0	84.2	SW b W	0.0					
3 „	.686	.900	81.2	75.0	6.2	72.4	.76	81.6	84.1	„	0.0					
4 „	.681	.908	81.0	74.6	6.4	71.9	.75	81.4	84.0	SW	0.0					
5 „	.692	.944	80.3	73.7	6.6	70.9	.74	80.5	83.8	„	0.0	None.	None.	None.	None.	None.
6 „	.709	.959	81.0	74.0	7.0	71.0	.73	81.8	83.7	„	0.0					
7 „	.728	.962	84.0	75.3	6.7	71.6	.68	84.0	84.0	WSW	0.0					
8 „	.740	.964	85.7	76.3	9.4	72.0	.66	85.6	84.3	SW	0.0					
9 „	.738	.970	88.5	76.6	11.9	71.6	.59	87.0	84.4	„	0.0					
10 „	.742	.954	89.6	77.4	12.2	72.5	.58	88.2	84.7	SW b S	0.1					
11 „	.740	.939	90.5	78.0	12.5	73.0	.58	89.0	85.0	SW b W	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩ cumulo-strati; and ≀≀ nimbi.	
7	H	≀≀ scattered throughout, moving SE; drops of rain falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 85°0 and 85°2.
5	L	≀≀ scattered about, moving E.	
5	L	≀≀ scattered around hor., moving E; ≀ along S hor.	
4	L	≀≀ scattered about hor., moving E; light rain at 3h. 45m.	
7	L	Densely clouded with ≀≀, moving E.	
8	C	Densely clouded with ≀≀, moving NE.	
8	C	Clouded as before; fog along E hor. [hor.	
6	C	∩ in S hor.; ≀≀ scattered about, moving NNE; a rainbow in W; fog along E	
7	C	Densely clouded with ≀≀, moving E; fog along E hor.	
8	H	Overcast with ≀≀ and ≀≀, the former moving SE and the latter NW.	
5	H	≀≀ and ≀ scattered about, the former moving SE; fog along E hor.	
7	H	" " " " " " " "	
6	H	" " " " " " " "	
5	L	∩ in E hor.; ≀ in E and S; ≀≀ scattered about, moving E.	
5	L	∩ in E hor.; ≀≀ scattered about, moving; hazy.	
3	L	∩ in N; ≀≀ scattered about, moving E.	
2	L	" " " " "	
1	C	" " " " "	
1	C	≀ in SE; ≀≀ scattered about, moving E.	
1	C	≀≀ scattered about, moving E; lightning in NW.	
1	C	≀≀ scattered about, moving E.	
1	H	≀≀ scattered about hor.; ≀ in N hor.	
1	H	≀≀ in SE hor.; ≀ scattered about; a partial lunar-halo.	
3	H	≀≀ in SW, moving NE; ≀ scattered about E hem.	
4	H	≀≀ scattered around hor.; ≀ scattered about.	Mean daily Temperature of Ground 20 and 60 inches below its surface 85°0 and 85°2. The Temperature of External and Free Air at 1 P. M. was 92°4 the greatest in the month, and about 3°2 higher than the Normal Mean.
2	L	≀≀ scattered about, moving NE; ≀ above E and S hor.	
2	L	≀≀ scattered about, moving ENE; a few ≀ in S.	
2	L	≀≀ scattered about, moving NE; a few ≀ in W.	
1	L	≀≀ scattered about, moving NE.	
1	C	≀≀ scattered about, moving E; ≀ around hor. and in NE.	
2	C	≀≀ and ≀ scattered about, the former moving E.	
4	C	" " " " "	
4	C	≀≀ and ≀ scattered about, the former moving ENE.	
6	H	≀≀ and ≀ scattered about, the former moving NE.	
6	H	≀ around hor.; ≀≀ scattered about, moving NE.	
4	H	" " " " "	
4	H	" " " " "	
6	L	≀≀ in N hem., moving ENE; ∩ in hor.; ≀ and ≀≀ scattered in S hem.	
7	L	∩ along E hor.; ≀≀ in W; ≀ and ≀≀ scattered throughout.	
5	L	∩ along E hor.; ≀ in S hem.; ≀≀ scattered about, moving NE.	
6	L	∩ around hor., except in NE; ≀ and ≀≀ scattered about W hem.	
6	C	∩ along E hor. and in W hor.; ≀ scattered about hor.	
4	C	∩ around hor., except in SW; ≀≀ above SW hor.; ≀≀ scattered about.	
1	C	≀≀ in SW and W hor.; ≀ and ≀≀ scattered here and there.	
0	C	A few clouds in E hor., otherwise clear.	
3	H	≀≀ around hor.; ≀ scattered about; a lunar-halo.	
3	H	" " " " " "	
3	H	" " " " " "	
4	H	≀≀ around hor.; ≀ scattered about; a lunar-halo.	Mean daily Temperature of Ground 20 and 60 inches below its surface 85°0 and 85°2. On the 6th at 3 A. M. the Barometer rose a little instead of falling, and at 9 A. M. it fell a little instead of rising; its evening minimum was a little later than usual; the Temperature of deduced Dew-point at 5 A. M. was 70°9, the least during the month.
3	L	≀≀ around hor., moving NE; ≀ scattered in SW and W; a lunar-halo.	
3	L	≀≀ and ≀ scattered about hor.; a lunar-halo.	
3	L	≀≀ and ≀ scattered about hor.	
1	L	≀ around hor.; ≀≀ in NE and E hor.	
1	C	≀≀ around hor.; ≀ scattered here and there.	
2	C	" " " " "	
2	C	≀≀ around hor., moving ENE; ≀ scattered about.	
1	C	≀≀ around hor.; ≀ scattered about SE, S, and SW hor.	
3	H	" " " " " "	
4	H	≀≀ in hor. from N to S; ≀ scattered about.	
5	H	≀≀ around hor.; ≀ scattered about.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
June 6th-Noon.	29.733	28.901	91°9	79°1	12°8	74°2	0.58	90°3	85°3	WSW	0.1					
1 p. m.	.727	.892	92.0	79.2	12.8	74.3	.58	90.2	85.6	SW	0.1					
2 „	.719	.890	91.8	79.0	12.8	74.1	.57	90.0	85.8	WSW	0.1					
3 „	.705	.899	91.6	78.4	13.2	73.2	.56	90.2	85.8	„	0.2		+	1		Above 10m.
4 „	.697	.882	91.6	78.6	13.0	73.5	.57	90.0	85.9	SW b W	0.1		+	1		Above 10m.
5 „	.678	.867	89.6	78.0	11.6	73.4	.60	88.5	86.0	WSW	0.0		+	1		Above 10m.
6 „	.681	.884	86.9	76.9	10.0	72.9	.64	86.2	85.7	„	0.0					
7 „	.692	.870	85.0	77.0	8.0	73.8	.70	84.8	85.4	„	0.0	None.			None.	
8 „	.699	.867	84.1	77.0	7.1	74.2	.73	84.1	85.4	SW b W	0.0					
9 „	.712	.839	84.0	78.0	6.0	75.7	.77	83.9	85.2	„	0.2					
10 „	.725	.841	83.0	78.0	5.0	76.1	.80	83.4	85.0	S b W	0.1					
11 „	.723	.908	82.8	76.2	6.6	73.5	.75	83.1	84.9	SW b W	0.0					
June 8th-Midnight	.707	.867	83.4	77.0	6.4	74.5	.75	83.7	84.9	SW	0.1					
1 a. m.	.687	.843	83.0	77.0	6.0	74.6	.77	83.2	84.8	„	0.0					
2 „	.670	.823	82.7	77.0	5.7	74.7	.78	83.1	84.8	„	0.0					
3 „	.664	.831	82.6	76.6	6.0	74.2	.77	83.0	84.7	SW b S	0.0					
4 „	.672	.837	82.4	76.6	5.8	74.3	.77	82.9	84.6	SW	0.0					
5 „	.680	.822	82.1	77.1	5.0	75.1	.80	82.7	84.4	SSW	0.0					
6 „	.698	.864	80.8	76.1	4.7	74.3	.81	81.7	84.3	SW b W	0.0					
7 „	.719	.827	83.8	78.4	5.9	76.4	.79	84.5	84.5	„	0.0					
8 „	.728	.802	83.0	79.0	4.0	77.5	.84	84.0	84.5	„	0.0					
9 „	.740	.818	83.4	79.0	4.4	77.4	.83	84.9	84.7	S b E	0.0		+	4		4.00
10 „	.736	.721	85.8	81.8	4.0	80.4	.85	86.2	84.7	SE b S	0.0		+	1		Above 10m.
11 „	.738	.822	87.7	80.0	7.7	77.2	.72	88.1	85.0	„	0.1					
Noon.	.721	.822	89.3	80.0	9.3	76.6	.67	88.6	85.2	W b S	0.0	None.			None.	
1 p. m.	.695	.804	90.8	80.2	10.6	76.3	.64	90.2	85.6	„	0.1					
2 „	.684	.790	91.4	80.4	11.0	76.4	.63	90.7	85.7	W b N	0.1					
3 „	.659	.765	91.4	80.4	11.0	76.4	.63	91.0	85.9	WNW	0.2					
4 „	.639	.780	91.4	79.6	11.8	75.2	.60	91.0	86.0	„	0.2					
5 „	.637	.773	89.4	79.2	10.2	75.4	.64	89.0	86.0	„	0.1					
6 „	.650	.776	87.0	78.8	8.2	75.7	.70	87.2	85.8	NW b W	0.1					
7 „	.659	.797	85.0	78.0	7.0	75.3	.74	85.6	85.6	W b N	0.1					
8 „	.686	.857	84.4	77.0	7.4	74.1	.72	89.2	85.5	WNW	0.1					
9 „	.707	.861	83.9	77.3	6.6	74.7	.75	84.4	85.2	W	0.0					
10 „	.704	.864	83.4	77.0	6.4	74.5	.75	84.2	85.0	„	0.0					
11 „	.703	.861	83.2	77.0	6.2	74.6	.76	84.1	85.0	„	0.0					
June 9th-Midnight	.685	.839	82.8	77.0	5.8	74.7	.77	83.9	84.9	W	0.0					
1 a. m.	.663	.793	82.8	77.6	5.2	75.6	.80	83.7	84.9	„	0.0					
2 „	.656	.821	82.4	76.6	5.8	74.3	.77	83.3	84.8	W b N	0.0					
3 „	.655	.818	82.2	76.6	5.6	74.4	.78	83.2	84.7	„	0.0					
4 „	.661	.826	82.4	76.6	5.8	74.3	.77	83.2	84.6	„	0.0					
5 „	.663	.831	82.1	76.5	5.6	74.2	.78	82.8	84.5	„	0.0					
6 „	.687	.823	82.3	77.3	5.0	75.4	.80	83.2	84.4	„	0.0					
7 „	.708	.866	83.9	77.2	6.7	74.6	.74	84.8	84.5	WNW	0.0					
8 „	.718	.808	85.2	79.2	6.0	77.0	.77	85.4	84.6	W b N	0.0					
9 „	.727	.790	85·4	79.9	5.5	77.9	·79	86.6	84.6	SE	0.0					
10 „	.730	.814	88.5	80.2	8.3	77.2	.70	88.2	85.2	„	0.0					
11 „	.715	.825	90.2	80.0	10.2	76.3	.65	89.4	85.4	W	0.0					
Noon.	.706	.822	90.9	80.0	10.9	76.0	.63	90.3	85.6	NW b W	0.1	None.	None.	None.	None.	None.
1 p. m.	.679	.794	90.6	80.0	10.6	76.1	.64	90.4	85.9	„	0.2					
2 „	.661	.799	90.4	79.4	11.0	75.3	.62	90.2	86.0	WNW	0.3					
3 „	.639	.786	89.6	79.0	10.6	75.0	.63	89.9	86.0	„	0.2					
4 „	.630	.775	88.0	78.6	9.4	75.0	.67	88.0	86.0	„	0.3					
5 „	.634	.779	86.4	78.2	8.2	75.0	.70	87.0	85.6	NW	0.2					
6 „	.643	.796	85.6	77.8	7.8	74.7	.71	86.2	85.5	NW b W	0.1					
7 „	.660	.834	84.6	77.0	7.6	74.0	.72	85.2	85.4	„	0.1					
8 „	.673	.830	84.2	77.3	6.9	74.6	.74	84.6	85.3	„	0.1					
9 „	.683	.822	84.0	77.7	6.3	75.2	.76	84.3	85.2	„	0.0					
10 „	.689	.826	83.8	77.8	6.0	75.3	.77	84.2	85.2	„	0.0					
11 „	.681	.821	83.4	77.5	5.9	75.2	.77	84.1	85.0	„	0.0					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀ cirro-cumuli; ∩ cumuli; ≀ cirro-strati; ∩ cumulo-strati; and ≀ nimbi.	
5	H	≀ around hor.; ≀ scattered about.	
3	L	≀ scattered about, moving E; ≀ in SE and about zth.	
5	L	≀ around hor. and in W, moving E; ≀ in SE and about zth.	
3	L	" " " " " " " "	
3	L	≀ scattered about, moving E; a few ≀ in W.	
3	C	≀ around hor. and in zth., moving E; ≀ scattered here and there.	
1	C		
2	C	" " " " " " " "	
3	C	≀ scattered about, moving E; a few ≀ in SE.	
6	C	≀ scattered about hor.	
4	C	≀ scattered throughout, moving N.	
3	C	≀ scattered throughout, moving NE.	
		≀ around hor.; ≀ scattered about.	
7	H	Densely clouded with ≀, moving NE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 85°0 and 85°3.
3	L	≀ scattered about hor., moving NE; a few ≀ in SE and S.	
4	L	" " " " " " "	
4	L	" " " " " " "	
5	L	≀ scattered about hor., moving NE; a few ≀ in SW and S. [rain.	
7	C	≀ above E. hor.; ≀ along E hor.; ≀ scattered about, moving NE; light	
6	C	≀ and scattered about, the former moving NE. [at 7h. 45m.	
7	C	≀ and ≀ scattered throughout, the latter moving NE; light rain commenced	
7	C	Densely clouded with ≀, moving ENE; rain ceased at 8h. 4m. which recom-	
8	H	Overcast with ≀, moving ENE; rain ceased at 9h. 10m. [menced at 8h. 45m.	
5	H	≀ around hor., ≀ scattered about.	
4	H	" " " "	
5	H	≀ scattered about, moving NE.	
3	L	∩ along E hor.; ≀ in E, SE, and S; ≀ scattered about, moving NE.	
4	L	" " " " " " "	
3	L	∩ along E hor.; ≀ in E and SW; ≀ scattered about, moving NE.	
5	L	∩ along E hor.; ≀ and ≀ scattered about, the latter moving E.	
7	N		
7	N	" " " " " " "	
7	N	≀ scattered about hor., moving E; ≀ scattered throughout; lightning in ENE.	
7	N	" " " " " " "	
6	N	≀ and ≀ scattered about, the latter moving E.	
4	H	≀ around hor.; ≀ scattered about.	
4	H	" " " "	
2	H	" " " "	
6	H	≀ and ≀ scattered about, the former moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°8 and 85°4.
8	L	" " " " "	
8	L	≀ around hor.; ≀ scattered throughout; a lunar-halo.	
8	L	≀ and ≀ scattered throughout, the latter moving NE.	
8	L	Overcast with ≀, moving NE.	
7	N	≀ and ≀ scattered about, the latter moving E.	
7	N	" " " " "	
8	N	" " " " "	
6	N	" " " " "	
8	H	Overcast with ≀ in two strata, the lower moving E and the upper NW.	
7	H	Densely clouded with ≀ and ≀, the former moving E.	
7	H	" " " " "	
7	H	" " " " "	
8	L	" " " " "	
8	L	∩ along E hor., otherwise clouded with ≀ and ≀.	
8	L	" " " " "	
7	L	" " " " "	
8	N	" " " " "	
8	N	Clouded as before; lightning in ENE or E hor., at intervals of 20s.	
7	N	" " " " " "	
8	N	Overcast; a few stars dimly visible.	
7	H	Densely clouded with ≀ and ≀, the former moving E.	
7	H	" " " " "	
6	H	Clouded as before but the motion of ≀ was ENE; a lunar-halo.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
June 10th-Midnight	29.672	28.834	83°2	76°9	6°3	74°4	0.76	84°0	85°0	NW b W	0.0					
1 a. m.	.657	.805	83.0	77.2	5.8	74.9	.77	83.7	84.9	,,	0.0					
2 ,,	.635	.789	82.8	77.0	5.8	74.7	.77	83.4	84.9	,,	0.1					
3 ,,	.628	.780	82.6	77.0	5.6	74.8	.78	83.2	84.7	,,	0.1					
4 ,,	.635	.787	82.6	77.0	5.6	74.8	.78	83.2	84.7	,,	0.2					
5 ,,	.651	.796	82.4	77.1	5.3	75.0	.79	82.6	84.6	,,	0.1					
6 ,,	.674	.782	83.0	78.2	4.8	76.4	.81	84.0	84.5	,,	0.1					
7 ,,	.691	.809	84.3	78.3	6.0	76.0	.77	84.3	84.6	,,	0.1					
8 ,,	.710	.860	83.2	77.2	6.0	74.8	.77	83.5	84.6	NNW	0.2					
9 ,,	.719	.876	86.0	77.8	8.2	74.6	.70	87.2	84.6	,,	0.1			1		Above 10m.
10 ,,	.717	.868	88.1	78.5	9.6	74.8	.66	88.8	85.0	,,	0.1			1		Above 10m.
11 ,,	.711	.838	89.8	79.5	10.3	75.7	.64	89.1	85.3	,,	0.2			1		Above 10m.
Noon.	.695	.846	90.7	79.2	11.5	74.8	.61	90.4	85.5	N b W	0.2	None.	None.		None.	
1 p. m.	.669	.792	90.6	79.8	10.8	75.8	.63	90.6	85.8	NW b N	0.3			1		Above 10m.
2 ,,	.645	.773	91.8	80.0	11.8	75.6	.60	91.6	86.1	NW b W	0.2			1		Above 10m.
3 ,,	.639	.806	92.2	79.2	13.0	74.2	.57	91.7	86.4	WNW	0.3			1		Above 10m.
4 ,,	.633	.788	88.0	78.4	9.6	74.7	.66	88.0	86.1	NW b W	0.3					
5 ,,	.635	.797	86.4	77.8	8.6	74.4	.68	86.5	85.8	NW	0.1			3		3.30
6 ,,	.648	.833	85.6	77.0	8.6	73.5	.68	86.1	85.7	,,	0.1					
7 ,,	.664	.844	85.2	77.0	8.2	73.7	.69	85.7	85.6	NW b N	0.0					
8 ,,	.669	.815	85.0	77.8	7.2	75.0	.73	85.6	85.6	,,	0.0					
9 ,,	.684	.816	84.8	78.1	6.7	75.5	.75	85.3	85.5	,,	0.0					
10 ,,	.695	.825	84.6	78.1	6.5	75.6	.75	85.2	85.3	,,	0.0					
11 ,,	.692	.798	84.4	78.6	5.8	76.4	.78	85.1	85.3	,,	0.0					
June 11th-Midnight	.677	.789	84.1	78.4	5.7	76.2	.78	84.8	85.2	NW b N	0.0					
1 a. m.	.668	.767	83.8	78.6	5.2	76.7	.80	84.6	85.2	,,	0.0					
2 ,,	.669	.777	83.8	78.4	5.4	76.4	.79	84.6	85.2	,,	0.0					
3 ,,	.666	.780	83.6	78.2	5.4	76.1	.79	84.2	85.2	,,	0.0			1		Above 10m.
4 ,,	.677	.789	83.4	78.2	5.2	76.2	.80	84.0	85.1	,,	0.0					
5 ,,	.701	.825	83.0	77.8	5.2	75.8	.80	83.6	84.9	,,	0.0					
6 ,,	.721	.828	83.3	78.3	5.0	76.4	.80	84.2	84.9	,,	0.0					
7 ,,	.737	.848	85.6	78.8	6.8	76.3	.74	86.1	85.1	,,	0.0					
8 ,,	.749	.804	84.0	79.7	4.3	78.2	.83	84.4	85.0	W	0.0					
9 ,,	.758	.836	84.1	79.2	4.9	77.4	.81	84.6	85.0	WNW	0.0					
10 ,,	.748	.868	87.2	79.0	8.2	75.9	.70	88.0	85.3	NW b N	0.1					
11 ,,	.739	.879	90.6	79.4	11.2	75.2	.62	90.2	85.7	,,	0.1		Pos.	1		Above 10m.
Noon.	.734	.862	91.4	79.9	11.5	75.6	.61	91.2	86.0	WNW	0.1		Pos.	1		Above 10m.
1 p. m.	.729	.870	91.0	79.5	11.5	75.2	.61	88.8	86.3	WSW	0.3		Pos.	1		2.00
2 ,,	.747	.799	84.8	80.0	4.8	78.3	.81	83.2	85.8	SSE	0.4		Neg.	Out of Sc.	Out of Sc.	Instantly.
3 ,,	.741	.863	81.4	77.4	4.0	75.9	.84	82.0	85.0	SE b S	0.2	0.02	Neg.	Out of Sc.	Out of Sc.	Instantly.
4 ,,	.733	.873	79.4	76.4	3.0	75.2	.88	80.4	84.7	S b W	0.1	0.07	Neg.	Out of Sc.	Out of Sc.	Instantly.
5 ,,	.752	.908	80.2	76.2	4.0	74.6	.84	81.1	84.6	,,	0.0					
6 ,,	.708	.857	80.2	76.4	3.8	74.9	.84	80.9	84.5	,,	0.0					
7 ,,	.710	.833	80.0	77.0	3.0	75.8	.88	80.9	84.3	SE b E	0.0					
8 ,,	.716	.843	79.4	76.8	2.6	75.7	.89	80.3	84.2	,,	0.0		Pos.	1		Above 10m.
9 ,,	.731	.846	79.6	77.1	2.5	76.1	.90	80.3	84.0	,,	0.0		Pos.	2		3.35
10 ,,	.739	.836	79.5	77.5	2.0	76.7	.92	80.0	84.0	,,	0.0		Pos.	1		Above 10m.
11 ,,	.737	.825	79.7	77.8	1.9	77.1	.92	80.2	83.8	,,	0.0		Pos.	1		Above 10m.
June 12th-Midnight	.730	.819	79.8	77.8	2.0	77.0	.92	80.3	83.7	SE b E	0.0					
1 a. m.	.719	.804	80.2	78.0	2.2	77.2	.91	80.9	83.7	,,	0.0					
2 ,,	.711	.810	80.0	77.6	2.4	76.7	.90	80.9	83.7	,,	0.0		Pos.	1		Above 10m.
3 ,,	.715	.802	80.4	78.0	2.4	77.1	.90	81.2	83.6	SSE	0.2					
4 ,,	.721	.806	80.2	78.0	2.2	77.2	.91	81.0	83.6	,,	0.3					
5 ,,	.713	.815	79.6	77.4	2.2	76.6	.91	80.6	83.5	,,	0.2					
6 ,,	.725	.827	79.6	77.4	2.2	76.6	.91	80.6	83.4	SE b S	0.2	None.			None.	
7 ,,	.737	.823	80.6	78.1	2.5	77.2	.90	81.5	83.4	SE	0.1					
8 ,,	.747	.817	81.9	78.8	3.1	77.7	.87	82.8	83.5	,,	0.1					
9 ,,	.746	.807	84.9	79.8	5.1	78.0	.80	85.2	83.9	,,	0.0					
10 ,,	.744	.804	87.1	80.4	6.7	78.0	.75	86.4	84.2	,,	0.0					
11 ,,	.732	.810	87.2	80.0	7.2	77.4	.74	86.4	84.3	SE b S	0.0					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤≤ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩⌣ cumulo-strati; and ≤⌣ nimbi.	
6	H	≤≤ and ≤ scattered about, the former moving E; a lunar-halo.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°8 and 85°4.
7	L	" " " " " "	
8	L	Clouded as before; a lunar-halo; a few stars dimly visible.	
8	L	" " " " " "	
7	L	≤≤ scattered about, moving E; ≤ in S and SW.	
7	N	Densely clouded with ≤≤, moving E.	
7	N	" " " "	
5	N	≤≤ scattered about, moving SE.	
5	N	" " " "	
6	H	≤≤ scattered about, moving SE; a few ≤ in W.	
5	H	≤≤ scattered about, moving SE; a few ≤ in S and SW.	
5	H	" " " " " "	
4	H	≤≤ scattered about hor.; ≤ in S and SW above hor.	
2	L	∩ along E hor.; ≤≤ in S hor.; ≤ in E hem.	
4	L	∩ along E hor.; ≤ scattered about.	
6	L	∩ along E hor.; ≤ scattered throughout.	
8	L	Densely clouded with ≤ and ≤≤, the latter moving E; ∩ in NE and E hor.	
8	C	Densely clouded as before; distant thunder in E.	
8	C	" " " " "	
8	C	≤ around hor., otherwise clouded with ≤≤.	
8	C	" " " "	
8	H	Overcast with ≤≤ whose motion was not apparent.	
8	H	Overcast; a few stars dimly visible about 2th.	
8	H		
		Overcast; a few stars dimly visible.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°8 and 85°4. Daily fall of rain by Osler's Gauge 0.02; Maximum Tension of Electricity by Henly's Apparatus, 9; Maximum length of Spark by Ronald's Measure 0.10in.
7	H	Densely clouded with ≤≤, moving NNE.	
8	L	Overcast with ≤≤ and ≤≤, the former moving E and the latter W.	
8	L	Overcast with ≤≤ and ≤≤, the former moving NE. [2th.	
8	L	≤≤ around hor.; ≤≤ scattered about, moving SW; a few stars visible about	
7	L	Light ≤≤ around hor.; ≤≤ and ≤ scattered throughout; a lunar-halo.	
6	C	Light ≤≤ around hor.; ≤≤ scattered about; ≤≤ floating ESE.	
8	C	Overcast with ≤≤ and ≤≤, the former moving ESE.	
8	C	Clouded as before; light rain at 7h. 35m. which lasted 23m.	
8	C	Overcast; light rain at 8h. 33m. which lasted 18m.	
8	H	Overcast; drizzling rain at 9h. 20m. [heard at 10h. 55m.	
8	H	Overcast in two strata, the lower moving E and the upper W; thunder in E	
8	H	Overcast; thunder in ESE.	
8	H	Overcast; thunder in ESE.	
7	L	Densely clouded; thunder in E; rain commenced at 1h. 55m.	
8	L	Overcast; raining; thunder and lightning about 2th.	
8	L	Overcast with ≤≤, moving W; raining; lightning and thunder in NW.	
8	L	Overcast with ≤≤, moving W; thunder in W; rain ceased at 4h. 12m.	
8	C	⌣ along E hor., otherwise clouded with ≤≤, moving W; thunder about 2th.	
8	C	⌣ along E hor., otherwise clouded with ≤≤; drops of rain; rainbow in E.	
7	C	⌣ and ≤ along E hor; ≤≤ scattered throughout; a few drops of rain falling.	
8	C	Overcast with ≤≤; a few drops of rain at the time of observation.	
8	H	Overcast with ≤≤.	
8	H	Overcast; a few stars visible about 2th.	
8	H	" " " "	
8	H	Overcast with ≤≤.	Mean daily Temperature of Ground 20 and 60 inches below its surface 85°0 and 85°5. Daily fall of rain by Osler's Gauge 0.18; Maximum Tension of Electricity by Henly's Apparatus 3.0; Maximum length of Spark by Ronald's Measure 0.06in. On this day the Range of Barometer was 0.157, the greatest during the month.
7	L	≤≤ scattered throughout; ≤≤ in E above hor.	
7	L	≤≤ scattered throughout, moving ENE; ≤≤ in E, SE, and S above hor.	
7	L	" " " " " " " "	
7	L	≤≤ scattered throughout, moving E; ≤≤ in SE and S.	
6	C	≤≤ around hor.; ≤ and ≤≤ scattered throughout.	
7	C	≤ in E and SE hor.; ≤≤ in the remainder of hor.; ≤≤ scattered throughout.	
8	C	∩ in W and NW hor.; ≤≤ from NE to SSW hor.; ≤≤ scattered throughout.	
8	C	" " " " " " " "	
8	H	" " " " " " " "	
8	H	≤≤ about hor., moving E; ≤ and ≤≤ scattered throughout.	
8	H	" " " " " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 feet in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of Intensity after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
June 12th-Noon.	29.716	28.776	89°1	80°9	8°2	78°0	0.71	87°9	84°3	SE b S	0.1					
1 p. m.	.696	.756	90.3	81.2	9.1	78.0	.68	89.5	85.0	W b N	0.2					
2 „	.658	.704	90.6	81.6	9.0	78.5	.69	90.2	85.3	NW	0.2					
3 „	.625	.697	90.6	81.0	9.6	77.6	.67	90.2	85.5	NW b N	0.5					
4 „	.608	.678	89.6	80.8	8.8	77.7	.69	89.4	85.6	„	0.3					
5 „	.588	.666	88.8	80.4	8.4	77.4	.70	88.6	85.6	„	0.2					
6 „	.610	.666	86.4	80.3	6.1	78.1	.77	86.6	85.4	„	0.2					
7 „	.630	.671	85.4	80.4	5.0	78.6	.81	85.5	85.3	NW	0.2					
8 „	.680	.731	85.1	80.1	5.0	78.3	.81	85.4	85.3	„	0.1		Neg.	Out of Sc.	Out of Sc.	Instantly.
9 „	.649	.863	78.4	74.2	4.2	72.4	.83	79.0	84.5	E b N	0.1	0.13				
10 „	.646	.815	79.2	75.6	3.6	74.1	.85	80.4	84.5	WSW	0.1	0.06				
11 „	.645	.800	79.4	76.0	3.4	74.7	.86	80.2	84.2	„	0.1					
June 13th-Midnight	.635	.827	79.2	75.0	4.2	73.3	.83	80.2	84.0	S b E	0.2					
1 a. m.	.620	.780	79.8	76.0	3.8	74.5	.84	80.9	83.9	„	0.1					
2 „	.622	.733	80.4	77.4	3.0	76.3	.88	81.4	83.8	„	0.1					
3 „	.619	.677	80.8	78.8	2.0	78.1	.92	81.5	83.8	SE	0.5	0.01				
4 „	.600	.698	80.6	77.8	2.8	76.7	.89	81.4	83.8	S	0.3					
5 „	.609	.695	80.6	78.1	2.5	77.2	.90	81.5	83.6	SW b W	0.2					
6 „	.611	.695	81.2	78.3	2.9	77.2	.88	82.0	83.5	NW	0.1					
7 „	.632	.702	82.6	79.0	3.6	77.7	.86	83.1	83.8	NNW	0.0					
8 „	.636	.675	83.6	80.0	3.6	78.7	.86	83.6	84.0	N	0.2					
9 „	.640	.728	84.3	79.0	5.3	77.2	.80	83.2	84.0	E	0.2					
10 „	.629	.652	85.3	80.8	4.5	79.2	.83	85.9	84.1	„	0.1					
11 „	.615	.640	87.5	81.3	6.2	79.2	.77	87.2	84.4	„	0.0					
Noon.	.605	.616	88.6	81.9	6.7	79.6	.76	88.2	84.6	S	0.0					
1 p. m.	.587	.618	90.0	81.8	8.2	79.0	.71	89.0	85.1	WSW	0.1					
2 „	.566	.592	91.2	82.2	9.0	79.1	.69	90.4	85.4	W b N	0.2					
3 „	.549	.570	91.6	82.4	9.2	79.3	.68	90.9	85.6	„	0.2					
4 „	.536	.557	91.6	82.4	9.2	79.3	.68	91.0	85.8	W b S	0.2					
5 „	.537	.599	90.5	81.2	9.3	77.9	.68	90.0	85.9	W	0.2					
6 „	.534	.601	87.8	80.4	7.4	77.8	.73	87.7	85.7	WSW	0.1					
7 „	.593	.665	86.6	80.0	6.6	77.6	.76	86.6	85.7	„	0.0		Neg.	Out of Sc.	70	Instantly.
8 „	.597	.794	81.0	75.4	5.6	73.1	.78	80.8	85.0	E	0.0		Neg.	Out of Sc.	Out of Sc.	Instantly.
9 „	.618	.784	79.0	75.6	3.4	74.3	.86	79.2	84.4	N b E	0.0	0.06	Neg.	Out of Sc.	Out of Sc.	Instantly.
10 „	.606	.763	78.8	75.8	3.0	74.6	.88	79.7	84.2	N	0.0	0.04	Neg.	Out of Sc.	Out of Sc.	Instantly.
11 „	.617	.772	79.4	76.0	3.4	74.7	.86	80.2	84.2	ENE	0.5					
June 15th-Midnight	.634	.694	79.4	78.4	1.0	78.0	.96	80.2	84.0	NE b N	0.1		Pos.	1		Above 10m.
1 a. m.	.601	.643	80.8	79.2	1.6	78.6	.93	81.7	84.2	ESE	0.2					
2 „	.590	.646	81.4	79.0	2.4	78.1	.90	82.5	84.2	S b E	0.3					
3 „	.599	.666	81.6	78.8	2.8	77.8	.89	82.0	84.1	„	0.8					
4 „	.608	.686	81.0	78.4	2.6	77.4	.89	81.4	84.1	S b W	0.5					
5 „	.615	.729	80.6	77.9	2.7	76.1	.89	81.1	84.0	„	0.8					
6 „	.629	.720	80.7	78.0	2.7	76.9	.89	81.5	83.9	S b E	0.7					
7 „	.647	.701	82.1	78.5	3.6	78.2	.86	82.9	83.9	„	0.4					
8 „	.656	.734	83.4	79.0	4.4	77.4	.83	84.0	84.0	„	0.4					
9 „	.669	.717	86.4	80.5	5.9	78.4	.78	86.7	84.0	S b W	0.3					
10 „	.681	.736	87.8	80.7	7.1	78.2	.74	87.6	84.5	„	0.3	Immeasurable.				
11 „	.672	.712	89.7	81.5	8.2	78.7	.71	90.0	84.9	„	0.3					
Noon.	.671	.650	91.0	83.2	7.8	80.6	.72	90.4	85.4	SSW	0.4				None.	
1 p. m.	.661	.680	91.4	82.4	9.0	79.3	.69	90.6	85.6	„	0.4					
2 „	.641	.702	90.4	81.2	9.2	78.0	.68	88.6	85.6	SW	0.4					
3 „	.625	.649	90.2	82.0	8.2	79.2	.71	89.2	85.7	SW b S	0.5					
4 „	.639	.693	86.6	80.4	6.2	78.2	.77	86.2	85.6	SW b W	0.4					
5 „	.621	.698	84.3	79.5	5.8	77.4	.81	84.2	85.3	SW b S	0.2					
6 „	.613	.656	84.0	80.0	4.0	78.6	.84	84.2	85.2	SSW	0.2					
7 „	.654	.730	84.2	79.5	4.7	77.5	.81	84.3	85.1	„	0.5					
8 „	.678	.733	83.6	79.6	4.0	78.2	.84	84.0	85.0	„	1.5					
9 „	.679	.734	82.8	79.4	3.4	78.2	.86	82.9	84.6	S	1.5					
10 „	.682	.755	82.5	78.9	3.6	77.6	.86	83.2	84.6	„	1.5					
11 „	.678	.747	82.5	79.0	3.5	77.7	.86	82.8	84.6	„	1.5					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩∪ cumulo-strati; and ≀≀ nimbi.	
5	H	≀≀ about hor., moving E; ≀ and ≀≀ scattered throughout.	
1	L	∩ in N, NE, and E hor.; ≀≀ scattered around hor., except in SE.	
1	L	∩ along E hor.; ≀≀ scattered about hor., moving SE.	
1	L	" " " " " " "	
1	L	∩ along E hor.; a few scud in N and NE; ≀ in E hem.	
6	C	∪ scattered throughout; a few scud in SE, NE, and N.	
8	C	≀≀ scattered throughout, moving E; lightning and thunder in NE. [of rain.	
8	C	Overcast with ≀≀; ≀ around hor.; continuous lightning & thunder in NE; drops	
8	C	Overcast with ≀≀, moving E; continuous lightning and thunder in NE; rain.	
8	H	Overcast; lightning from NE to S hor. and thunder in NE; raining.	
8	H	Overcast; rain ceased at 10h. 25m.; lightning in SSE.	
8	H	Overcast; light in SSE every 15m.	
8	H	Overcast with ≀≀, moving WSW.	Mean daily Temperature of Ground 20 and 60 inches below its surface 85°0 and 85°6. Daily fall of rain by Osler's Gauge 0.09; Maximum Tension of Electricity by Henly's Apparatus 17.0; Maximum length of Spark by Ronald's Measure 0.20in. At 6 P.M. the reading of Barometer was as low as 29.534, being about 0.090in. lower than the Normal Mean; the direction of Wind was circular. A slight thunder storm occurred on the night of the 14th instant, the Maximum force of Wind was moderate, it lasted for about 15 minutes.
8	L	" " " " [at 2h. 24m.; lightning in SE.	
8	L	Overcast with ≀≀, moving W; gusts of wind at 2h. 24m.; light showers of rain	
8	L	Overcast with ≀≀, moving W; lightning in hor. from S to W; thunder in W;	
8	L	Overcast; lightning in SW and W at intervals of 40s. raining lightly. [light rain.	
5	C	≀≀ scattered about, moving WSW; ≀≀ about zth.	
8	C	Overcast with ≀≀ and ≀≀, the latter moving WSW.	
7	C	≀≀ and ≀ around hor., otherwise clouded with ≀≀.	
8	C	Overcast with ≀≀ and ≀≀, the latter moving ESE.	
8	H	Overcast with ≀≀ in two strata, the lower moving SSE.	
8	H	≀≀ around hor.; ≀≀ scattered throughout, moving WSW.	
8	H	" " " " "	
8	H	≀≀, ≀, and ≀≀ scattered about; ≀≀ moving E; ≀≀ moving NW.	
1	L	≀≀ around hor.; ≀ above NE, NW, and SE hor.	
1	L	≀≀ around hor.; ≀ in E, SE, and W hor.	
2	L	≀≀ scattered around hor. and in E hem., moving SE.	
6	L	≀≀ scattered about, moving E; ≀≀ in SE above hor.	
7	L	≀≀ and ≀ scattered throughout, the former moving E. [in NE; rainbow in E.	
8	L	∪ in E hem.; ≀≀ and ≀ in W hem., patches of ≀≀ scattered about E; thunder	
8	L	∪ in W hem.; ≀≀ scattered about, lightning and thunder in E; light rain.	
8	L	Overcast with ≀≀; continuous lightning and thunder from W to E; light rain.	
8	L	Overcast; continuous lightning and thunder in N, NE, and E; light rain.	
8	L	Overcast; continuous lightning and thunder in N, NE, and E.	
8	L	Overcast with ≀≀, moving W; lightning in E at intervals of 45 seconds.	
8	H	[thunder in W and SW; rain ceased at 10m. Overcast with ≀≀ in two strata, the lower stratum moving E; lightning and	Mean daily Temperature of Ground 20 and 60 inches below its surface 85°0 and 85°6.
8	L	Overcast in two strata; lightning in S; a few drops of rain at 1h. 33m.	
8	L	Overcast; continuous lightning in S. [whose force was about 3lbs.	
8	L	Overcast; continuous lightning in S; steady gusts of wind from 3h. 10m.	
8	L	Overcast with ≀≀, moving W; continuous lightning in SW; smart gusts of wind.	
7	C	∪ and ≀ about E hor.; and ≀≀ scattered throughout, moving WNW.	
7	C	∪ about E and SE hor.; ≀ and ≀≀ about zth.; ≀≀ scattered throughout.	
7	C	Densely clouded with ≀≀, and ≀≀, the former moving WNW.	
7	C	" " " " " " "	
7	H	∪ around hor.; ≀≀ about hor., moving NNW; ≀ scattered throughout.	
6	H	∩ around hor.; ≀≀ around hor.; ≀ scattered throughout. [about.	
6	H	∩ and pieces of ≀≀ around hor., the latter moving NW; ≀ and ≀≀ scattered	
7	H	" " " " " " "	
2	L	∩ from N to SW hor.; light ≀≀ in W hem., ≀ scattered in E hem.	
3	L	∩ along E hor.; ≀ around hor.; a few patches of light ≀≀ in W, moving E.	
4	L	" " " " " " "	
7	L	∩ in W hor.; ≀≀ and ≀ scattered about, the former moving N.	
8	C	∩ around hor.; ≀≀ scattered throughout; a few ≀ in W.	
8	C	∩ in SE and S and NW; ≀ in W hem., ≀≀ scattered throughout, moving N.	
8	C	" " " " " " "	
8	C	" " " " " " "	
8	H	≀≀ and ≀ scattered about, the former moving NNW; stars visible about zth.	
5	H	≀≀ and ≀ scattered about, the former moving NNW; lightning in W every 7m.	
7	H	Nearly overcast with ≀≀, lightning in NW; light rain at 11h. 28m. and at 11h. 40m.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
June 16th-Midnight	29.663	28.739	82°1	78°7	3°4	77°5	0.86	82°4	84°5	S b W	1.0					
1 a. m.	.659	.758	82.2	78.2	4.0	76.7	.84	82.8	84.6	„	0.4					
2 „	.648	.751	81.8	78.0	3.8	76.5	.85	82.7	84.4	SSW	0.3					
3 „	.648	.761	82.0	77.8	4.2	76.2	.83	82.8	84.3	„	0.4					
4 „	.653	.758	82.0	78.0	4.0	76.5	.84	82.6	84.3	„	1.0					
5 „	.671	.756	80.2	78.0	2.2	77.2	.91	81.1	84.0	S	0.5	0·06				
6 „	.700	.785	80.4	78.0	2.4	77.2	.91	81.0	83.8	S b E	0.6					
7 „	.712	.772	81.7	79.0	2.7	78.0	.89	83.1	83.8	S	0.2					
8 „	.702	.746	84.2	79.5	4.7	78.5	.82	84.2	84.2	SSW	0.2					
9 „	.701	.770	84.9	79.6	5.3	77.7	.80	84.7	84.2	S b W	0.2					
10 „	.692	.735	87.9	81.0	6.9	78.6	.75	88.1	84.6	„	0.4					
11 „	.683	.725	89.4	81.4	8.0	78.6	.71	89.2	85.0	SSW	0.4					
Noon.	.663	.713	88.2	80.9	7.3	78.3	.73	88.2	85.0	„	0.3					
1 p. m.	.649	.673	90.2	82.0	8.2	79.2	.71	89.7	85.3	S b W	0.5					
2 „	.643	.678	89.6	81.6	8.0	78.8	.71	89.2	85.4	„	0.6					
3 „	.632	.694	89.6	81.0	8.6	77.9	.69	89.4	85.5	„	0.5					
4 „	.619	.678	87.0	80.4	6.6	78.0	.76	87.5	85.4	SSW	0.4					
5 „	.619	.707	84.3	79.0	5.3	77.1	.80	84.1	85.3	„	0.5					
6 „	.624	.671	83.2	79.7	3.5	78.4	.86	83.9	85.0	SW	0.3					
7 „	.635	.702	83.1	79.2	3.9	77.8	.85	83.9	84.8	„	0.2					
8 „	.640	.727	83.4	78.8	4.6	77.1	.81	84.1	84.8	„	0.3					
9 „	.650	.738	82.8	78.6	4.2	77.1	.83	83.9	84.6	SW b S	0.2		Neg.	Out of Sc.	Out of Sc.	Instantly.
10 „	.665	.742	82.9	78.9	4.0	77.4	.84	84.0	84.6	S b W	0.2		Neg.	1		2.60
11 „	.659	.740	82.9	78.8	4.1	77.3	.84	83.7	84.6	„	0.2		Neg.	1		Above 10m.
June 17th-Midnight	.636	.713	82.5	78.8	3.7	77.4	.85	83.2	84.5	SSW	0.2					
1 a. m.	.603	.712	82.4	78.0	4.4	76.3	.83	83.0	84.5	„	0.4					
2 „	.593	.686	82.4	78.4	4.0	76.9	.84	83.0	84.4	„	0.4					
3 „	.599	.683	80.8	78.2	2.6	77.2	.89	81.0	84.2	„	0.3	0.14				
4 „	.601	.682	79.8	78.0	1.8	77.3	.93	80.5	83.9	SE b S	0.2	0.07				
5 „	.605	.672	80.0	78.4	1.6	77.8	.93	80.9	83.8	SSE	0.6					
6 „	.617	.664	80.5	79.0	1.5	78.4	.94	81.2	83.8	SE b S	0.5					
7 „	.625	.677	81.0	79.0	2.0	78.3	.92	81.6	83.8	SE	0.4					
8 „	.639	.667	82.6	80.0	2.6	79.1	.90	83.3	83.9	SSE	0.2					
9 „	.644	.644	83.6	80.9	2.7	80.0	.89	84.2	84.0	S	0.2					
10 „	.637	.631	85.5	81.5	4.0	80.1	.85	85.8	84.4	„	0.3					
11 „	.625	.636	87.4	81.6	5.8	79.6	.78	87.9	84.5	„	0.2				None.	
Noon.	.613	.637	89.5	81.8	7.7	79.1	.73	89.2	84.9	S b E	0.2					
1 p. m.	.586	.598	89.9	82.2	7.7	79.6	.73	89.5	85.2	„	0.5					
2 „	.567	.583	88.6	81.8	6.8	79.4	.75	88.0	85.3	S b W	0.3					
3 „	.549	.567	89.6	82.0	7.6	79.4	.73	89.0	85.4	„	0.3					
4 „	.541	.591	87.8	80.8	7.0	78.3	.74	87.2	85.4	„	0.6					
5 „	.549	.573	85.0	80.7	4.3	79.2	.83	85.0	85.0	S b E	0.8					
6 „	.545	.612	82.7	79.1	3.6	77.8	.86	83.3	84.8	„	0.4	0.01				
7 „	.566	.619	82.6	79.4	3.2	78.2	.87	83.1	84.7	„	1.5					
8 „	.576	.643	82.4	79.0	3.4	77.8	.86	83.0	84.6	„	0.6					
9 „	.579	.611	81.1	79.5	1.6	78.9	.93	83.9	84.5	„	0.8	0.01				
10 „	.583	.600	81.3	79.9	1.4	79.4	.94	82.2	84.1	SE b S	1.5	0.03				
11 „	.590	.639	79.2	78.6	0.6	78.4	.97	79.0	83.6	SSE	0.8	0.35	Pos.	1		Above 10m.
June 18th-Midnight	.581	.649	78.3	77.9	0.4	77.7	.98	78.4	83.6	S b W	1 to 1¾	0·26	Pos.	1		Above 10m.
1 a. m.	.570	.680	78.8	77.0	1.8	76.3	.93	79.6	83.6	SE	¼ to 1					
2 „	.547	.657	78.8	77.0	1.8	76.3	.93	79.5	83.5	„	1.0					
3 „	.525	.648	78.6	76.6	2.0	75.8	.92	79.3	83.4	„	1.5					
4 „	.517	.629	79.0	77.0	2.0	76.2	.92	79.6	83.2	„	2.0					
5 „	.533	.662	78.8	76.5	2.3	75.6	.90	79.3	83.1	„	2.5					
6 „	.545	.660	79.3	77.0	2.3	76.1	.90	80.1	83.0	SSE	0.8				None.	
7 „	.553	.653	80.6	77.6	3.0	76.6	.88	80.8	83.1	„	1.2					
8 „	.581	.677	81.2	78.0	3.2	76.8	.87	81.7	83.1	„	1¼ to 1					
9 „	.597	.651	82.7	79.4	3.3	78.2	.87	83.0	83.4	S b E	1.5					
10 „	.597	.623	84.4	80.5	3.9	79.1	.86	84.3	83.5	S b W	1.0					
11 „	.597	.649	83.3	79.6	3.7	78.3	.85	83.1	83.5	SSW	1 to 2					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤≤ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩∪ cumulo-strati; and ≤≤ nimbi.	
7	H	Densely clouded with ≤≤ & ≤; ≤≤ moving NNW; lightning in NW; fresh breezes.	Mean daily Temperature of Ground 20 and 60 inches below its surface 85°0 and 85°8. Daily fall of rain by Osler's Gauge 0.06; Maximum Tension of Electricity by Henly's Apparatus 5.0; Maximum length of Spark by Ronald's Measure 0.06. The morning maximum of Barometer occurred about 3h. earlier than usual, its reading at 7 A. M. was 29.712, the highest during the month, and was about, 0.050in. higher than the Normal Mean.
7	L	Densely clouded with ≤≤ and ≤; ≤≤ moving W; lightning in NW.	
7	L	Densely clouded with ≤≤ and ≤; ≤≤ moving N; lightning in NW every 2m.	
8	L	Overcast with ≤≤, moving N; stars dimly visible in zth.; lightning in NW every 2m.	
8	L	Overcast with ≤≤, moving N; lightning in NW; light rain at 4h. lasted 19m.	
6	C	≤≤ scattered throughout, moving N; a few drops of rain at 5h. 7m.	
8	C	Overcast with ≤≤, moving NW.	
6	C	≤≤ and ≤ scattered about, the former moving NW.	
5	C	≤≤ around hor., moving N; ≤ scattered about.	
5	H	∩ around hor.; ≤≤, ≤≤, and ≤ scattered about, the former moving NNW.	
7	H	" " " " " " " "	
7	H	∩ around hor.; ≤≤ and ≤≤ scattered; ≤≤ moving N; light rain at 11h. 15m.	
6	H	" " " " " " " "	
5	L	≤≤ scattered about, moving N; ≤ in E and S. " " "	
6	L	∩ in N, NE, E, and S; ≤≤ around hor., moving N; ≤ scattered about.	
5	L	∩ around hor.; ≤ and ≤≤ scattered throughout, the latter moving NE.	
7	L	" " " " " " " "	
8	C	Overcast with ≤≤, moving NNE; drizzling rain at 5h. which lasted 7m.	
8	C	Overcast with ≤≤, and ≤, the former moving NNE.	
7	C	≤≤ scattered about, moving N; a few ≤ W of zth.	
8	C	Overcast with ≤≤, moving N; drizzling 8h. 17m. [thunder in N at 9h. 45m.	
8	H	Overcast with ≤≤, moving N; lightning in E; drizzling at 9h. 15m. lasted 15m.;	
8	H	Overcast with ≤≤, moving N; stars visible in zth.; lightning & thunder in N.	
7	H	Overcast with ≤≤, moving N; lightning in NNW; rain at 11h. 2m. for 5m.	
7	H	Overcast with ≤≤, moving N.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°2 and 84°3. Daily fall of rain by Osler's Gauge 0.58.
4	L	≤≤ scattered about, moving NNE.	
6	L	≤≤ scattered throughout; a shower of rain at 2h. 46m. which lasted 12m.	
8	L	Overcast with ≤≤, moving N; rain at 3h. 25m. which lasted 8m.	
8	L	Densely clouded with ≤≤, moving N.	
7	C	" " " "	
8	C	≤≤ and ≤≤ scattered throughout, the former moving N; a few ≤ in SE hor.	
8	C	≤≤ around hor., ≤ scattered throughout; a few patches of ≤≤ about zth.	
8	C	≤≤ scattered throughout, moving W; a few patches of ≤≤ about zth.	
8	H	∩ around hor.; ≤≤ and ≤≤ scattered about, the latter moving NW.	
8	H	" " " " " " " "	
7	H	∩ around hor.; ≤≤ and ≤≤ scattered about, the latter moving N. "	
7	H	Clouded as at 11 A. M.; a few drops of rain at 12h. 16m.	
6	L	≤≤ and ≤ scattered about, the former moving N; ∩ in S and SW hor.	
5	L	∩ around hor.; ≤≤ and ≤ scattered about, the former moving N.	
6	L	" " " " " "	
4	L	∩ in hor.; ≤≤ and ≤ scattered about hor.; light rain at 4h. 23m. for 3m.	
6	C	∩ in hor.; ≤≤ scattered about, moving N; rainbow in NE; rain from 5h.	
5	C	≤≤ scattered about, moving N. [10m. to 5h. 18m.	
6	C	≤≤ scattered about, moving N; ≤ about zth. [at 8h. 27m. fresh breezes.	
3	C	≤≤ scattered about hor., moving N; lightning in NE and E every 5m. drizzling	
6	H	Densely clouded with ≤≤, moving N; lighning in NE every 2m. rain ceased 9h.	
7	H	Densely clouded with ≤≤, moving N; light shower of rain at 10h. 9m. [42m.	
8	H	Overcast with ≤≤, moving N; lightning and thunder in N 11h. 46m. drizzling.	
8	H	Overcast with ≤≤, moving N; drizzling rain ceased at 28m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 85°0 and 85°8. Daily fall of rain by Osler's Gauge 0.71; Maximum Tension of Electricity by Henly's Apparatus, 17.0; Maximum length of Spark by Ronald's Measure 0.20. Gusts of Wind in the evening; Maximum pressure 4.5
2	L	≤≤ around hor., moving N.	
2	L	≤≤ scattered around hor.; sheet lightning in NW at intervals of 1m. 25s.	
2	L	≤≤ scattered around hor.; a few ≤ in E.	
1	L	≤≤ scattered around hor., otherwise clear.	
2	C	≤≤ around hor., moving N; a few ≤ in about zth.	
2	C	≤≤ around hor., moving N; ≤≤ in SE; ≤ scattered here and there.	
8	C	Overcast with ≤≤, moving N; drizzling rain at 7h. 25m.	
8	C	Overcast with ≤≤, moving N; drizzling rain at 8h. 6m. [which lasted 3m.	
7	H	≤≤ and ≤ scattered throughout, the former moving N; light rain at 9h. 20m.	
7	H	≤≤ and ≤ scattered throughout, the former moving N; light rain at 10h. 47m.	
8	H	Overcast with ≤≤, moving N; rain at 11h. 25m. which lasted 5m. [lasted 10m.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
June 18th—Noon.	29.596	28.642	81°6	79°3	2°3	73°5	0.91	82°2	83°5	S	½ to 1		Neg.	Out of Sc.	Out of Sc.	Instantly.
1 p. m.	.573	.596	83.8	80.4	3.4	79.2	.83	84.4	83.8	SSW	1.0	0.01				
2 „	.560	.585	81.6	79.8	1.8	79.2	.93	82.4	83.6	„	1.5	0.07				
3 „	.565	.631	79.6	78.3	1.3	77.8	.95	80.6	83.6	SW	0.5	0·04				
4 „	.557	.643	78.8	77.6	1.2	77.1	.95	79.6	83.1	SSW	0.8	0.18				
5 „	.554	.650	79.0	77.4	1.6	76.8	.93	79.7	83.0	S b W	0.5					
6 „	.566	.662	79.0	77.4	1.6	76.8	.93	79.6	82.9	SSW	0.5					
7 „	.584	.683	78.9	77.3	1.6	76.7	.93	79.2	82.8	„	2.0	0.06				
8 „	.597	.675	78.8	77.8	1.0	77.4	.96	79.5	82.7	„	1.0	0.05				
9 „	.612	.717	78.4	77.0	1.4	76.5	.94	79.0	82.5	S b W	1.0					
10 „	.634	.704	78.8	78.0	0.8	77.7	.97	79.7	82.5	„	0.8	0.04				
11 „	.625	.709	79.3	77.8	1.5	77.2	.94	80.0	82.6	„	0.8					
June 19th—Midnight	.606	.701	79.3	77.5	1.8	76.8	.92	80.1	82.6	S b W	0.4					
1 a. m.	.588	.698	78.8	77.0	1.8	76.3	.92	79.6	82.6	„	0.6					
2 „	.571	.679	78.6	77.0	1.6	76.4	.93	79.4	82.5	S	0.5					
3 „	.559	.667	78.6	77.0	1.6	76.4	.93	79.2	82.4	„	0.7	0.03				
4 „	.567	.672	78.4	77.0	1.4	76.5	.94	78.9	82.2	„	0.3	0.01				
5 „	.581	.721	78.8	77.1	1.7	75.4	.93	79.1	82.2	„	0.4	0.01				
6 „	.599	.696	79.0	77.4	1.6	76.7	.93	79.2	82.1	SSW	0.3	0.04				
7 „	.617	.709	80.4	77.9	2.5	76.9	.90	81.2	82.3	SW	0.3	0.01				
8 „	.631	.731	83.0	78.4	4.6	76.6	.81	83.2	82.6	SSW	0.2					
9 „	.640	.704	81.7	78.9	2.8	77.9	.89	82.7	82.4	SW b S	0.3	0.10				
10 „	.646	.766	83.0	77.9	5.1	75.9	.80	83.1	82.8	S	0.2					
11 „	.641	.681	85.7	80.5	5.2	78.7	.80	85.8	83.1	S b W	0.3					
Noon.	.626	.676	86.2	80.4	5.8	78.3	.78	86.0	83.3	S	0.3					
1 p. m.	.625	.682	87.6	80.6	7.0	78.1	.74	8.72	83.6	S b E	0.4					
2 „	.616	.625	88.8	82.0	6.8	79.7	.75	88.8	83.9	S	0.5					
3 „	.604	.681	87.8	80.2	7.6	77.4	.72	87.8	84.0	„	0.4					
4 „	.587	.643	86.8	80.4	6.4	78.1	.76	86.4	84.2	„	0.6					
5 „	.600	.674	80.3	78.3	2.0	77.5	.92	80.8	83.4	S b E	0.2	0.12	Neg.	Out of Sc.	Out of Sc.	Instantly.
6 „	.595	.698	80.0	77.5	2.5	76.5	.90	80.9	83.2	SSW	0.2					
7 „	.616	.811	80.2	75.5	5.7	73.2	.77	82.2	83.3	„	0.1					
8 „	.637	.744	82.2	78.0	4.2	76.4	.83	82.8	83.3	S b W	0.3					
9 „	.656	.738	79.9	78.0	1.9	77.3	.92	82.1	83.2	W b N	0.5					
10 „	.678	.794	78.6	76.8	1.8	76.1	.92	79.2	83.0	SW	0.2	0.06				
11 „	.661	.808	77.2	75.6	1.6	75.0	.93	78.3	82.8	SW b W	0.2	0.05				
June 20th—Midnight	.642	.737	78.9	77.4	1.5	76.8	.94	80.0	82.7	SSW	0.1	0.01				
1 a. m.	.616	.711	79.6	77.6	2.0	76.8	.92	80.2	82.6	SSE	0.3					
2 „	.602	.680	79.5	78.0	1.5	77.4	.94	80.2	82.6	„	0.1					
3 „	.591	.649	79.7	78.5	1.2	78.1	.95	80.4	82.5	„	0.4					
4 „	.597	.661	80.6	78.6	2.0	77.9	.92	81.6	82.5	S	0.5					
5 „	.603	.690	81.4	78.5	2.9	77.1	.88	81.8	82.7	SW b S	0.3					
6 „	.618	.678	80.2	78.6	1.6	78.0	.93	81.0	82.5	SW b W	0.2	0.12				
7 „	.624	.634	82.6	80.4	2.2	79.6	.91	83.2	82.8	S b W	0.3					
8 „	.639	.658	83.8	80.5	3.3	79.4	.87	84.0	83.1	SW b S	0.3					
9 „	.650	.671	85.9	81.0	4.9	79.3	.81	86.2	83.3	„	0.3					
10 „	.648	.656	85.9	81.3	4.6	79.7	.82	86.2	83.4	„	0.3					
11 „	.643	.627	87.4	82.2	5.2	80.5	.80	87.5	83.7	„	0.3					
Noon.	.633	.635	87.8	81.9	5.9	79.9	.78	88.1	84.0	SW	0.2		None.	None.	None.	None.
1 p. m.	.619	.618	89.1	82.3	6.8	80.0	.75	88.8	84.2	„	0.2					
2 „	.609	.602	89.8	82.6	7.2	80.2	.74	89.1	84.4	„	0.2					
3 „	.593	.606	89.5	82.3	7.2	79.5	.74	88.9	84.7	„	0.2					
4 „	.578	.581	87.4	81.8	5.6	79.9	.79	87.9	84.7	WSW	0.3					
5 „	.579	.617	87.1	80.9	6.2	78.7	.77	86.9	84.7	„	0·2					
6 „	.584	.640	85.2	80.0	5.2	78.1	.80	85.2	84.7	„	0.2					
7 „	.590	.632	83.9	80.0	3.9	78.6	.85	84.1	84.5	„	0.3	0.01				
8 „	.610	.633	83.8	80.4	3.4	79.2	.87	84.2	84.5	SSW	0.5					
9 „	.618	.639	83.6	80.4	3.2	79.3	.87	84.1	84.4	„	0.6					
10 „	.623	.711	81.2	78.2	3.0	77.1	.88	81.6	84.1	SW b S	0.6	0.05				
11 „	.614	.704	80.6	78.0	2.6	77.0	.89	81.2	84.0	„	0.4	0.03				

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤≤ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩∩ cumulo-strati; and ≤≤ nimbi.	
8	H	Overcast; light drizzling rain at 38m.	
8	L	Overcast; rain commenced at 1h. 23m.	
8	L	Overcast; rain ceased at 2h. 10m. which recommenced at 2h. 26m.	
8	L	Overcast; raining.	
8	L	Overcast; rain ceased at 4h. 10m.	
8	C	Overcast; drizzling rain at 5h. 20m.	
7	C	Densely clouded with ≤≤, ≤≤, and ≤; rain commenced at 6h. 50m.	
8	C	Overcast; rain ceased at 7h. 45m.	
6	C	≤≤ scattered throughout, moving N; drizzling rain at 8h. 43m.	
8	H	Overcast with ≤≤, moving N; drizzling rain at 9h. 5m. and 9h. 37m.	
8	H	Overcast with ≤≤, moving N.	
8	H	Overcast; a few stars dimly visible.	
8	H	Overcast with ≤≤, moving N.	Mean daily Temperature of Ground 20 and 60 inches below its surface 85°0 and 85°8. Daily fall of rain by Osler's Gauge 43; Maximum Tension of Electricity by Henly's Apparatus 5.0; Maximum length of Spark by Ronald's Measure 0.07; strong breezes in the evening.
7	L	Densely clouded with ≤≤, except in zth.	
8	L	Overcast with ≤≤, moving N; light shower of rain at 2h. 45m. which lasted 3m.	
8	L	Overcast; a light shower of rain at 3h. 32m.	
8	L	Overcast; light drizzle at 4h. 35m.	
8	C	Overcast; light rain rain at 5h. which lasted 27m.	
8	C	Overcast; light rain at 6h. 2m. which lasted 15m.	
6	C	≤≤ around hor., moving N; ≤ in S hem.; ≤≤ scattered throughout.	
8	C	≤≤ and ≤≤ scattered about, the former moving NNE; light drizzle at 8h. 12m.	
8	H	≤≤ scattered throughout; ≤ and ≤≤ in NW and W. [which lasted 14m.	
8	H	Overcast with ≤≤, moving N.	
7	H	Densely clouded with ≤≤ and ≤≤, the former moving N; a few ≤ in SW.	
3	H	≤≤ from N to SW hor.; ≤≤ scattered in E, moving N.	
5	L	≤≤ around hor.; ≤ and ≤≤ scattered about.	
6	L	≤≤ around hor.; ≤≤ scattered about, moving N.	
5	L	" " " " " [which lasted 12m.	
6	L	≤≤ and ≤≤ scattered about, the former moving NE; light rain at 4h. 26m.	
8	C	Overcast in two strata with ≤≤, moving NNE.	
8	C	Densely clouded with ≤≤, moving slowly NNE.	
7	C	" " " " "	
5	C	≤≤ scattered about, moving NE; [at 9h. 50m.	
8	H	Overcast with ≤≤, moving NE; steady gales of wind accompanied with rain	
8	H	Overcast; drizzling rain.	
8	H	Overcast; rain ceased at 11h. 33m. a break in NE.	
8	H	Overcast with ≤≤, moving N.	Mean daily Temperature of Ground 20 and 60 inches below its surface 85°0 and 85°8. Daily fall of rain by Osler's Gauge 0.27.
3	L	≤≤ scattered about hor., moving N.	
1	L	A few masses of ≤≤ around hor., otherwise clear.	
2	L	≤≤ scattered about, moving N; a few drops of rain at 3h. 15m.	
4	L	≤≤ scattered about hor., moving N. [lasted 9m.	
3	C	≤≤ around hor.; ≤≤ about zth.; a few ≤ in S; light rain at 5h. 36m. which	
3	C	≤≤ scattered about hor., moving NE; a few patches of ≤≤ in E.	
7	C	Densely clouded with ≤≤, moving NE; a few drops of rain at 7h. 5m.	
4	C	≤≤ scattered about; ≤ around zth.	
7	H	≤≤ scattered throughout, moving ENE; ≤ in SW; drizzling rain at 9h. 47m.	
7	H	Densely clouded with ≤≤ and ≤≤ both moving ENE; light drizzle at 10h. 23m.	
7	H	Densely clouded with ≤≤ and ≤≤ both moving NE.	
7	H	≤≤ scattered throughout, moving NE.	
7	H	≤≤ scattered throughout, moving ENE.	
6	H	≤≤ scattered throughout, moving NE; a few ≤ in E.	
6	C	≤≤ scattered throughout, moving NE; a few ≤ in SE; light rain at 3h. 31m.	
6	C	Clouded as before but no rain.	
6	H	" " "	
6	H	≤≤ scattered throughout, moving NE; a few ≤ in ENE; a passing shower of	
6	H	≤≤ scattered throughout, moving NE. [rain at 6h. 32m.	
6	H	" " " "	
5	H	≤≤ scattered about, moving NE; wind and rain at 9h. 38m.	
8	H	Overcast with ≤≤, moving NE; wind and rain at 10h. 19m.	
6	H	≤≤ scattered throughout, moving NE.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers		Wind from Osler's Gauge.		Rai	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture	In the Air.	Wet-Bulb Thermometer.	Depression of Wet-Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in seconds between the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
June 22nd-Midnight	29.563	28.606	82°9	79°7	3°2	78°6	0.87	83°2	84°2	WSW	0.2					
1 a. m.	.551	.608	82.8	79.2	3.6	78.1	.86	83.2	84.2	SW b W	0.8					
2 „	.543	.600	82.8	79.2	3.6	78.1	.86	83.2	84.1	„	0.4					
3 „	.534	.604	82.6	79.0	3.6	77.7	.86	83.1	84.1	„	0.4					
4 „	.530	.597	82.4	79.0	3.4	77.8	.86	83.0	84.0	„	0.2					
5 „	.533	.596	82.0	79.0	3.0	77.9	.88	82.7	83.8	„	0.2					
6 „	.541	.564	82.2	80.0	2.2	79.2	.91	83.1	83.9	„	0.1					
7 „	.561	.617	83.7	79.6	4.1	78.1	.84	84.6	84.2	„	0.2					
8 „	.567	.587	85.8	81.0	4.8	79.3	.82	86.2	84.3	„	0.2					
9 „	.574	.577	87.4	81.8	5.6	79.9	.79	88.0	84.5	SW	0.2					
10 „	.584	.599	88.5	81.8	6.7	79.5	.76	88.4	84.7	„	0.3					
11 „	.574	.665	88.0	79.9	8.1	76.9	.71	87.1	84.8	„	0.2					
Noon.	.561	.556	89.2	82.4	6.8	80.1	.75	88.3	85.0	„	0.2					
1 p. m.	.557	.537	86.2	82.0	4.2	80.6	.84	86.7	85.0	W b S	0.2	0.07	None.	None.	None.	None.
2 „	.551	.546	88.4	82.2	6.2	80.1	.77	88.9	85.2	„	0.2					
3 „	.533	.592	81.6	79.0	2.6	78.0	.89	82.0	84.6	W b N	0.1	0.16				
4 „	.521	.613	80.8	78.0	2.8	76.9	.89	82.2	84.3	WSW	0.1					
5 „	.513	.563	84.6	80.0	4.6	78.3	.82	84.8	84.7	W b S	0.1					
6 „	.512	.553	83.8	80.0	3.8	78.6	.85	84.2	84.6	„	0.1					
7 „	.515	.584	82.8	78.8	4.0	77.7	.84	83.0	84.5	WNW	0.1					
8 „	.527	.551	82.6	80.1	2.5	79.2	.90	83.0	84.3	WSW	0.1	0.01				
9 „	.537	.589	81.4	79.1	2.3	78.3	.91	81.4	84.0	NW b W	0.1					
10 „	.556	.641	79.8	77.9	1.9	77.2	.92	80.6	83.8	SW b W	0.2					
11 „	.548	.601	80.0	78.7	1.3	78.2	.95	80.5	83.7	SW b S	0.4	0.15				
June 23rd-Midnight	.537	.605	78.6	78.0	0.6	77.7	.97	79.5	83.5	SW b W	0.2	0·20				
1 a. m.	.529	.609	78.2	77.6	0.6	77.3	.97	79.2	83.3	W b S	0.4	0.05				
2 „	.519	.599	77.6	77.4	0.2	77.3	.99	78.9	83.1	W	0.2	0.14				
3 „	.515	.627	77.6	76.6	1.0	76.2	.96	78.7	82.8	W b N	0.4	0.08				
4 „	.507	.615	77.2	76.6	0.6	76.4	.97	78.2	82.7	W b S	0.3	0.15				
5 „	.521	.622	78.0	77.0	1.0	76.6	.96	78.6	82.6	WNW	0.2	0.02				
6 „	.539	.628	78.8	77.5	1.3	77.0	.94	79.8	82.6	„	0.1					
7 „	.549	.591	79.0	78.7	0.3	78.6	.99	79.8	82.5	NW b W	0.1	0.06				
8 „	.556	.578	80.6	79.6	1.0	79.3	.96	80.9	82.7	W b S	0.1	0.01				
9 „	.565	.585	81.5	79.9	1.6	79.3	.93	82.1	82.7	WNW	0.2					
10 „	.570	.579	80.9	80.0	0.9	79.7	.96	82.1	82.7	W	0.1	0.03				
11 „	.562	.612	82.3	79.4	2.9	78.3	.88	83.1	82.9	„	0.2	0.01				
Noon.	.546	.642	81.2	78.0	3.2	76.8	.87	82.0	83.0	SW	0.2					
1 p. m.	.555	.657	81.0	77.8	3.2	76.6	.87	81.6	82.9	W	0.6					
2 „	.548	.639	82.2	78.4	3.8	76.9	.85	83.2	83.0	W b S	0.2					
3 „	.531	.568	84.2	80.2	4.0	78.8	.84	84.6	83.3	WSW	0.1					
4 „	.519	.546	84.9	80.6	4.3	79.1	.83	85.0	83.5	„	0.1					
5 „	.517	.528	85.8	81.2	4.6	79.6	.83	85.8	83.7	„	0.1					
6 „	.527	.602	81.1	78.5	2.6	77.5	.88	81.2	83.5	S	0.1					
7 „	.537	.637	79.0	77.3	1.7	76.6	.93	80.0	83.0	SSW	0.1	0.06	Neg.	Out of Sc.	Out of Sc.	Instantly.
8 „	.548	.587	80.6	79.2	1.4	78.7	.94	81.2	83.0	„	0.2					
9 „	.560	.643	78.2	77.5	0.7	77.2	.97	79.0	82.8	SW b W	0.1	0.16	Neg.	1		Above 10m.
10 „	.563	.663	77.9	77.0	0.9	76.6	.96	78.4	82.6	WNW	0.1	0.49	Neg.	1		Above 10m.
11 „	.564	.665	78.0	77.0	1.0	76.6	.96	79.0	82.5	„	0.0		Neg.	Out of Sc.	Out of Sc.	Instantly.
June 24th-Midnight	.551	.642	78.6	77.4	1.2	76.9	.93	79.4	82.5	SW b S	0.1	0.02		1		Above 10m.
1 a. m.	.535	.637	78.8	77.2	1.6	76.6	.91	79.6	82.4	WSW	0.3					
2 „	.531	.627	78.6	77.4	1.2	76.9	.95	79.4	82.3	„	0.2					
3 „	.510	.672	77.2	75.2	2.0	74.4	.91	78.0	82.1	W b N	0.4					
4 „	.513	.604	78.6	77.4	1.2	76.6	.95	79.4	82.1	„	0.1					
5 „	.528	.594	79.2	78.0	1.2	77.8	.95	80.2	82.1	W	0.0					
6 „	.538	.625	78.2	77.4	0.8	77.1	.97	78.2	82.0	S b E	0.1	0.08	None.		None.	
7 „	.575	.712	77.0	75.8	1.2	75.3	.95	77.1	81.9	WSW	0.1	0.36				
8 „	.580	.637	78.2	77.9	0.3	78.1	.99	79.2	81.8	SW	0.1	0.11				
9 „	.592	.642	79.3	78.6	0.7	78.3	.97	80.0	82.0	S b E	0.1	0.02				
10 „	.596	.614	80.2	79.6	0.6	79.4	.98	81.2	81.9	SW b S	0.1	0.46				
11 „	.595	.664	79.3	78.0	1.3	77.7	.95	80.1	82.0	„	0.2	0.07				

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ≀— cirro-strati; ∩— cumulo-strati; and ≀≀ nimbi.	
4	H	≀≀ scattered about, moving NNE; wind and light rain at 18m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 85°0 and 85°8. Daily fall of rain by Osler's Gauge 0.39.
4	L	≀≀ scattered about, moving E.	
4	L	≀≀ scattered around hor. and in S hem., moving NE.	
4	L	≀≀ scattered about, moving NE.	
3	L	" " "	
6	C	≀≀ scattered throughout, moving NE; a few drops of rain at 5h. 2m.	
6	C	≀≀ around hor., moving NE; ≀ scattered throughout.	
5	C	≀ in SW and S; ≀≀ scattered about, moving NE.	
4	C	≀ in SW and S; ≀≀ scattered about, moving ENE.	
7	H	Densely clouded with ≀≀, moving ENE.	
7	H	Clouded as before; drizzling rain at 10h. 49m,	
8	H	Overcast with ≀≀, moving ENE; rain commenced at 11h. 12m. [shower.	
8	H	Overcast with ≀≀, moving ENE; a few ≀ NNW; rain ceased at 2m. a passing	
8	L	Overcast with ≀≀, with moving ENE; a few drops of rain at full hour.	
8	L	Overcast with ≀≀; a few ≀ and ≀≀ in W; passing showers of rain at 2h. 35m.	
8	L	Overcast with ≀≀, moving E; a passing shower of rain at 3h. 24m.	
8	L	Overcast with ≀≀, moving ENE.	
8	C	≀≀ scattered throughout, except in zth. where ≀ is discernable.	
7	C	≀≀ scattered throughout, moving ENE; ≀≀ and ≀ about zth.	
8	C	Overcast with ≀≀ moving ENE; drizzling rain at full hour.	
7	C	Densely clouded with ≀≀, moving E; a few drops of rain at 8h. 45m.	
7	H	Clouded as before; drizzling rain at the time of observation.	
8	H	Overcast with ≀≀, moving E; rain commenced at 10h. 57m. [30m.	
8	H	Overcast; rain ceased at 11h. 45m.; lightning in W at intervals of more than [commenced at 38m.	
8	H	Overcast with ≀≀ in two strata; light rain at 16m. which lasted 13m. it re-	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°9 and 85°8. Daily fall of rain by Osler's Gauge 1.47; Maximum Tension of Electricity by Henly's Apparatus 5.0; Maximum length of Spark by Ronald's Measure 0.03. The reading of Barometer at 5 P. M. was 29.517, the lowest during the month and about 0.100in. lower than the Normal Mean.
8	L	Overcast; raining.	
8	L	" "	
8	L	" "	
8	L	" "	
8	C	Overcast; light rain at 5h. 2m. which lasted 5m.	
8	C	Overcast; rain commenced at 6h. 45m.	
8	C	Overcast with ≀≀, moving E; rain ceased at 7h. 57m.	
8	C	Overcast; drizzling rain at 8h. 36m.	
8	H	Overcast wit ≀≀, moving ENE; drizzling rain.	
8	H	" " " "	
8	H	" " " "	
8	H	Overcast in two strata with ≀≀, moving ENE.	
8	L	" " " " "	
8	L	≀≀ and ≀≀ scattered throughout, the former moving E.	
8	L	" " " " "	
8	L	≀≀ around hor.; ≀ and ≀≀ scattered throughout.	
7	C	Densely clouded with ≀≀ and ≀, the former moving E.	
8	C	Overcast with ≀≀, moving ENE; passing shower of rain at 6h. 3m. and 6h.	
8	C	Overcast; light rain commenced at 7h. 37m. [20m.	
8	C	Overcast; raining lightly.	
8	H	" " "	
8	H	Overcast; rain ceased at 10h. 18m. [full hour.	
8	H	Overcast; light rain at 11h. 30m.; lightning and thunder in NE noticed at	
8	H	Overcast with ≀≀, moving ENE; rain ceased at 20m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°2 and 85°8. Daily fall of rain by Osler's Gauge 1.48; the Temperature of Free Air at 7 A. M. was 77°0, the lowest in the month, and about 5°0 lower than the Normal Mean; its daily range was 5°5, the least during the month.
8	L	Overcast in two strata with ≀≀, moving ENE.	
8	L	Overcast; a passing shower of rain at 2h. 19m.	
8	L	Overcast with ≀≀ in two strata, the lower stratum ENE.	
8	L	Overcast with ≀≀ in two strata, the lower stratum E.	
8	C	Overcast; light rain at 5h. 47m. which lasted 11m.	
8	C	Overcast; rain commenced at 6h. 43m.	
8	C	Overcast; raining.	
8	C	Overcast; with ≀≀ ENE; drizzling rain ceased at 8h. 15m.	
8	H	Overcast; rain ceased at 9h. 4m.	
8	H	Overcast; rain ceased at 10h. 28m. and recommenced at 10h. 40m.	
8	H	Overcast; raining.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time between the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
June 24th-Noon.	29.591	28.651	79°9	78°5	1°4	78°0	0.94	81°4	81°9	W·	0.1	0.06				
1 p. m.	.590	.636	81.2	79.2	2.0	78.5	.92	81.8	82.1	W b S	0.1					
2 „	.563	.673	81.0	77.6	3.4	76.3	.86	80.6	82.0	„	0.4	0.16				
3 „	.560	.620	82.5	79.2	3.3	78.0	.87	83.0	82.5	W	1 to 2½	0.07				
4 „	.543	.634	82.2	78.4	3.8	76.9	.85	82.8	82.5	W b S	0.2	0.01				
5 „	.542	.618	82.4	78.8	3.6	77.5	.86	82.8	82.5	„	0.3				None.	
6 „	.548	.642	81.0	78.0	3.0	76.8	.88	81.7	82.5	W b N	0.2					
7 „	.560	.637	81.4	78.5	2.9	77.4	.88	82.1	82.5	W b S	0.3					
8 „	.564	.647	80.0	78.0	2.0	77.2	.92	80.9	82.3	W b N	0.4	0.05				
9 „	.566	.651	80.2	78.0	2.2	77.2	.91	80.4	82.3	„	0.2					
10 „	.676	.658	80.3	78.1	2.2	77.3	.91	80.6	82.3	W	0.1					
11 „	.568	.640	85.5	78.4	2.1	77.6	.91	80.8	82.3	„	0.1		+	3		3.35
June 25th-Midnight	.549	.664	77.5	76.5	1.0	76.1	.96	78.2	82.1	W	2 to 4	0·25				
1 a. m.	.529	.615	78.8	77.6	1.2	77.1	.95	79.0	82.1	WSW	0.4	0.05				
2 „	.527	.630	78.2	77.0	1.2	76.5	.95	78.7	82.0	NW b W	1 to 2½	0.09				
3 „	.521	.599	77.4	77.4	0.0	77.4	1.00	78.0	81.7	W b N	1 to 1½	0.52				
4 „	.523	.588	77.6	77.8	0.2	77.8	1.01	78.2	81.6	WSW	½ to ¾	0.24				
5 „	.522	.549	78.4	78.9	0.5	79.1	1.02	79.4	81.5	W	½ to 2	0.20				
6 „	.535	.595	79.9	78.5	1.4	78.0	.94	80.5	81.8	„	½ to 1¾	0.02				
7 „	.558	.603	80.4	79.0	1.4	78.5	.94	80.8	82.0	„	½ to 1½	0.02				
8 „	.575	.595	80.8	79.7	1.1	79.3	.95	81.2	82.0	WSW	½ to 1¼	0.02				
9 „	.578	.503	81.6	79.8	1.8	79.2	.93	82.1	82.0	„	0.3					
10 „	.579	.508	82.7	80.0	2.7	79.0	.89	83.0	82.2	„	0.2					
11 „	.579	.508	83.1	80.1	3.0	79.0	.88	83.4	82.3	„	0.3					
Noon.	.575	.592	83.6	80.5	3.1	79.4	.88	94.1	82.5	W b N	½ to 3		None.	None.	None.	None
1 p. m.	.573	.590	84.0	80.6	3.4	79.4	.87	94.3	82.6	W b N	1 to 2½					
2 „	.568	.572	84.4	81.0	3.4	79.8	.87	85.0	82.7	„	1 to 2½					
3 „	.552	.575	83.8	80.4	3.4	79.2	.87	84.0	82.9	„	½ to 1¾					
4 „	.539	.644	83.1	78.3	4.8	76.5	.81	83.0	83.0	W	1 to 2					
5 „	.549	.604	83.2	79.5	3.7	78.2	.85	83.4	83.0	„	1½ to 2½					
6 „	.553	.623	82.6	79.0	3.6	77.7	.85	82.8	83.0	„	½ to 1					
7 „	.576	.651	82.3	78.8	3.5	77.5	.86	82.8	82.9	„	1 to 2					
8 „	.591	.670	82.0	78.6	3.4	77.4	.86	8.25	82.8	„	½ to ¾					
9 „	.593	.658	82.2	79.0	3.2	77.8	.87	82.3	82.8	„	½ to ½					
10 „	.599	.678	82.0	78.6	3.4	77.4	.86	82.2	82.7	„	0.5					
11 „	.596	.649	82.0	79.0	3.0	77.9	.88	82.2	82.7	WSW	½ to 1½					
June 26th-Midnight	.586	.647	81.8	79.0	2.8	78.0	.89	82.1	82.8	WSW	½ to 1					
1 a. m.	.582	.622	81.4	79.4	2.0	78.7	.92	81.7	82.8	„	½ to 2					
2 „	.572	.631	81.6	79.0	2.6	78.0	.89	82.2	82.8	„	½ to 1½					
3 „	.574	.627	81.8	79.2	2.6	78.2	.89	82.4	82.8	„	1 to 2¼					
4 „	.574	.637	82.0	79.0	3.0	77.9	.88	82.5	82.8	„	1 to 2					
5 „	.592	.655	82.0	79.0	3.0	77.9	.88	82.3	82.8	„	1 to 2¾					
6 „	.622	.704	81.4	78.0	3.4	77.3	.86	81.7	82.8	„	½ to 2½					
7 „	.636	.678	82.4	79.6	2.8	78.6	.89	82.8	82.8	W b S	½ to 1					
8 „	.647	.721	83.0	79.0	4.0	77.5	.84	83.4	82.9	WSW	½ to 1½					
9 „	.654	.686	84.6	80.4	4.2	78.9	.84	85.2	83.1	„	0.2					
10 „	.659	.634	86.3	81.0	5.3	79.2	.80	86.8	83.3	SW b W	½ to 1½					
11 „	.652	.639	82.1	80.8	1.3	80.4	.95	83.7	83.1	„	¾ to 3¼	0.15				
Noon.	.646	.647	86.1	81.5	4.6	79.9	.82	86.6	83.4	W b S	5½ to 9½	0.06			None.	
1 p. m.	.640	.601	81.8	79.0	2.8	78.0	.89	82.0	83.3	SW b W	2 to 3	0.15				
2 „	.628	.710	80.4	78.4	3.0	77.3	.88	81.2	83.2	WNW	3½ to 4½	0.19				
3 „	.620	.720	80.4	77.7	2.7	76.6	.89	80.4	83.0	„	2 to 4	0.02				
4 „	.606	.590	83.4	81.2	2.2	80.5	.91	84.2	83.0	W b S	0.4					
5 „	.603	.655	83.3	79.6	3.7	78.3	.85	83.7	83.3	„	½ to 1½					
6 „	.607	.651	82.6	79.6	3.0	78.5	.88	83.1	83.2	„	½ to 2½					
7 „	.624	.680	81.4	79.0	2.4	78.1	.90	82.2	83.0	„	0.3					
8 „	.652	.717	81.8	78.9	2.9	77.8	.88	82.4	83.0	„	½ to 1¼					
9 „	.654	.738	81.6	78.4	3.2	77.2	.87	82.1	83.0	„	0.3					
10 „	.669	.764	81.5	78.1	3.4	76.8	.86	82.1	83.0	„	0.2		+	1		Above 10m.
11 „	.667	.750	81.5	78.4	3.1	77.2	.87	82.1	83.0	„	0.2					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ≀∩ cirro-strati; ∩∩ cumulo-strati; and ≀∩ nimbi.	
8	H	Overcast with ≀∩, moving NE; rain ceased at 25m.	
8	L	Overcast; light rain at full hour which ceased at 1h. 15m.; it recommenced at	
8	L	Overcast with ≀∩, moving E; rain ceased at 2h. 10m. [1h. 56m.	
8	L	Overcast; a passing shower of rain at 3h. 8m. which lasted 2m.	
8	L	Densely clouded with ≀≀ and ≀∩, the former moving E.	
8	C	Densely clouded with ≀≀ and ≀∩, the former moving ENE.	
8	C	Densely clouded with ≀≀ and ≀∩, the former moving E.	
8	C	Clouded as before; drizzling rain commenced at 7h. 3m.	
8	C	Overcast; rain ceased at 8h. 30m.	
7	H	Densely clouded with ≀∩, moving E.	
8	H	" " " " [lasted 18m.	
7	H	Clouded as before; rain accompanied with gusts of wind at 11h. 12m. which	
8	H	Overcast with ≀∩, moving E; drizzling rain.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°2 and 85°7. Daily fall of rain by Osler's Gauge 1.40. On the 25th from 3 A. M. to 5 A. M. the Air was over saturated with moisture, consequently the Temperature of Wet Bulb Thermometer was a little higher than that of the Free Air. Wind blew in squalls from 25th to 30th.
8	L	Overcast; drizzling rain occasionally.	
8	L	Overcast; heavy rain.	
8	N	Overcast; raining; gusts of wind from W.	
8	N	" " " " "	
8	C	" " " " "	
8	C	" " " " "	
8	C	" " " " "	
8	C	" " " " "	
8	H	Overcast with ≀∩, moving ENE; rain ceased at 9h. 22m.	
8	H	Clouded as before.	
8	H	" "	
8	H	Overcast.	
8	N	"	
8	N	"	
8	N	"	
8	N	"	
8	C	"	
8	C	"	
8	C	"	
8	C	Overcast; a few stars dimly visible.	
8	H	" " " "	
8	H	Overcast; a few stars dimly visible; a passing shower of rain at 10h. 45m.	
8	H	Overcast with ≀∩, moving ENE; a few stars dimly visible.	
7	H	Densely clouded with ≀∩, moving ENE; a passing shower of rain at 25m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°2 and 85°7. Daily fall of rain by Osler's Gauge 5.7. On the 26th at 3 A. M. the Barometer rose a little instead of falling, and remained steady during the next hour; its evening minimum was a little later than usual; the daily range of Air Thermometer was 5°9, least during the month.
7	L	Clouded as before; a passing shower of rain at 1h. 50m.	
6	L	≀∩ scattered throughout, moving E.	
7	L	" " " "	
8	L	Overcast in two strata with ≀∩, moving ENE.	
8	C	" " " " "	
8	C	Overcast; light drizzling rain at 6h. 5m.	
8	C	Overcast; with ≀∩.	
8	C	" "	
8	H	" "	
8	H	Overcast; light rain commenced at 10h. 28m. and ceased at 10h. 52m.	
8	H	Overcast with ≀∩, moving ENE. [which ceased at 55m.	
7	H	Densely clouded with ≀∩, moving ENE; a few ≀ in NE; light rain at 29m.	
8	L	Overcast with ≀∩, moving NE; light rain at 1h. 20m. which lasted 10m.	
8	L	Overcast; occasional showers of rain.	
8	L	Overcast; raining from full hour to 3h. 10m.	
8	N	Overcast with ≀∩, moving NE.	
8	C	" " " [6h. 7m.	
7	C	Densely clouded with ≀∩, moving NE; a few ≀ in E; light drizzling rain at	
5	C	≀∩ scattered about, moving NE.	
4	C	" " " "	
3	H	≀∩ scattered about, moving N.	
5	H	≀∩ scattered about, moving NE.	
6	H	" " " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
June 27th-Midnight	29.663	28.740	81°4	78°5	2°9	77°4	0.88	82°0	82°9	WSW	0.4		+	4	4	Above 10m.
1 a. m.	.657	.724	81.6	78.8	2.8	77.8	.89	82.2	82.7	SW b W	½ to 1½					
2 „	.650	.721	81.2	78.6	2.6	77.6	.89	82.0	82.7	WSW	½ to 1½					
3 „	.644	.703	81.6	79.0	2.6	78.0	.89	82.2	82.7	„	½ to 1½					
4 „	.640	.722	81.4	78.4	3.0	77.3	.88	82.0	82.7	„	½ to 1¼					
5 „	.657	.745	81.6	78.3	3.3	77.1	.87	82.0	83.7	W b S	1 to 2½					
6 „	.674	.715	80.0	79.0	1.0	78.6	.96	81.2	82.5	SW b W	1 to 1½					
7 „	.691	.730	81.8	79.5	2.3	78.7	.87	82.2	82.7	WSW	1 to 1½					
8 „	.703	.747	82.6	79.6	3.0	78.5	.88	82.8	82.9	„	1 to 2					
9 „	.707	.724	84.8	80.8	4.0	79.4	.84	85.2	83.2	W b S	1 to 1½					
10 „	.706	.714	86.2	81.4	4.8	79.7	.82	86.4	83.4	„	2 to 2¾					
11 „	.692	.731	83.6	80.0	3.6	78.7	.86	83.7	83.3	„	0.8					
Noon.	.685	.667	84.4	81.5	2.9	80.5	.89	85.2	83.4	W	1 to 3				None.	
1 p. m.	.677	.682	87.6	81.8	5.8	79.8	.79	87.4	83.7	„	0.3					
2 „	.664	.690	86.4	81.0	5.4	79.1	.80	85.2	83.7	W b S	1 to 1¾					
3 „	.666	.717	80.9	79.0	1.9	78.7	.92	80.8	83.4	W	2 to 3½	0.12				
4 „	.648	.618	81.7	80.4	1.3	81.0	.95	82.4	83.2	W b S	0.2	0.03				
5 „	.652	.738	82.6	78.6	4.0	77.1	.84	83.0	83.2	„	1 to 2½					
6 „	.668	.712	82.6	79.6	3.0	78.5	.88	83.0	83.2	W b N	0.4					
7 „	.673	.706	82.2	79.6	2.6	78.9	.89	82.8	83.2	W b S	0.4					
8 „	.687	.750	82.0	79.0	3.0	77.9	.88	82.6	83.2	„	0.6					
9 „	.696	.757	81.8	79.0	2.8	78.0	.89	82.6	83.2	„	0.5					
10 „	.708	.761	81.8	79.2	2.6	78.2	.89	82.6	83.2	„	0.4					
11 „	.704	.754	81.6	79.2	2.4	78.4	.90	82.6	83.1	„	0.2					
June 29th-Midnight	.673	.767	81.0	78.0	3.0	76.8	.88	81.5	83.2	WSW	2½ to 4					
1 a. m.	.646	.693	81.3	79.2	2.1	78.4	.91	81.5	83.1	W	0.5					
2 „	.632	.687	81.3	79.0	2.3	78.2	.91	81.4	83.0	„	0.5					
3 „	.620	.684	79.8	78.4	1.4	77.9	.94	80.6	82.7	W b S	1 to 2½	0.03				
4 „	.623	.707	80.8	78.2	2.6	77.2	.89	81.0	82.8	„	1 to 1½					
5 „	.631	.689	81.2	78.9	2.3	78.1	.91	81.6	82.8	„	0.2					
6 „	.643	.723	81.2	78.4	2.8	77.3	.89	81.5	82.8	„	0.3					
7 „	.644	.719	82.0	78.7	3.3	77.5	.87	82.2	82.9	„	0.3					
8 „	.660	.734	83.0	79.0	4.0	77.5	.84	83.1	83.0	WSW	0.3					
9 „	.663	.693	83.6	80.2	3.4	79.0	.87	83.8	83.0	„	0.2					
10 „	.663	.665	85.4	81.3	4.1	79.9	.84	85.2	83.2	„	1 to 2¾					
11 „	.656	.675	86.6	81.2	5.4	79.4	.80	86.2	83.5	„	0.2					
Noon.	.647	.658	87.0	81.5	5.5	79.6	.79	87.0	83.7	„	1 to 2½		None.	None.	None.	None.
1 p. m.	.646	.665	85.7	81.0	4.7	79.3	.82	86.0	83.8	W b S	0.4					
2 „	.632	.623	84.0	81.2	2.8	80.2	.89	84.4	83.5	SW b W	1 to 2½	0.12				
3 „	.627	.655	85.0	80.6	4.4	79.1	.83	85.2	83.7	„	1 to 1½					
4 „	.627	.664	84.2	80.2	4.0	78.8	.84	84.2	83.7	„	1 to 1¾					
5 „	.623	.666	84.0	80.0	4.0	78.6	.84	84.0	83.7	„	½ to 1½					
6 „	.629	.699	83.0	79.1	3.9	77.7	.85	83.2	83.7	SW	0.3					
7 „	.630	.694	82.1	79.0	3.1	77.9	.87	82.6	83.5	SW b W	0.2					
8 „	.652	.715	82.0	79.0	3.0	77.9	.88	82.6	83.4	SW	0.5					
9 „	.654	.717	82.0	79.0	3.0	77.9	.88	82.3	83.4	„	0.4					
10 „	.665	.723	81.2	78.9	2.3	78.1	.91	81.9	83.2	„	0.4	0.02				
11 „	.661	.755	81.0	78.0	3.0	76.8	.88	81.5	83.1	„	0.6					
June 30th-Midnight	.650	.724	81.1	78.5	2.6	77.5	.89	81.8	83.1	SW b W	0.6					
1 a. m.	.634	.702	81.3	78.7	2.6	77.7	.89	82.0	83.1	„	½ to 1½					
2 „	.624	.678	81.2	79.0	2.2	78.2	.91	82.0	83.0	„	1.5					
3 „	.616	.670	81.2	79.0	2.2	78.2	.91	81.8	83.0	WSW	1.0					
4 „	.620	.681	80.7	78.7	2.0	78.0	.92	81.2	82.8	SW b W	1.5	0.05				
5 „	.631	.704	81.0	78.5	2.5	77.6	.90	81.7	82.8	„	0.6					
6 „	.651	.726	81.2	78.5	2.7	77.5	.89	81.7	82.9	„	0.5		None.	None.	None.	None.
7 „	.665	.750	81.3	78.3	3.0	77.2	.88	81.7	82.9	„	0.5					
8 „	.686	.751	82.2	79.0	3.2	77.8	.87	81.9	83.0	„	0.5					
9 „	.686	.727	83.8	80.8	3.8	78.6	.85	83.9	83.0	„	0.3					
10 „	.697	.707	83.9	80.8	3.1	79.6	.88	84.0	83.1	„	0.2					
11 „	.696	.715	85.7	81.0	4.7	79.4	.82	85.8	83.4	„	0.2					

Amount of Clouds 0—8.	Observers.	State of the Weather:	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ≀≀ cumuli; ≀≀ cirro-strati; ≀≀ cumulo-strati; and ≀≀ nimbi.	
3	H	≀≀ scattered about, moving NNE; drizzling rain at 15m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°2 and 85°7. Daily fall of rain by Osler's Gauge 0.15. On the 27th the morning maximum of Barometer was a little earlier, and at 3 P. M. it rose a little instead of falling; at the same hour the Wet Bulb Thermometer fell 2° in one hour, and rose 1°4 the next hour, at 4 P. M. the Temperature of Dew-point was 81°0, the greatest in the month.
7	N	Densely clouded with ≀≀, moving NE; a passing shower of rain at 1h. 15m.	
8	N	Overcast with ≀≀, moving NE.	
8	N	Overcast; wind blowing in gusts.	
8	N	" " " "	
8	C	Overcast; a few drops of rain at 5h. 20m.	
8	C	≀≀ around hor.; ≀ about zth.; ≀≀ scattered about. [7h. 27m. and 7h. 40m.	
8	C	≀≀ and ≀≀ scattered throughout, the later moving NE; light drizzling rain at	
7	C	Densely clouded with ≀≀ and ≀≀, the former moving NE.	
6	L	≀≀ around hor., moving ENE; ≀≀ in S; hazy.	
6	L	≀≀ scattered throughout; hazy.	
7	L	≀ and ≀≀ scattered about zth., otherwise clouded with ≀≀, moving NE.	
8	L	Overcast with ≀≀, moving ENE; a few drops of rain at 12m. [50m.	
7	H	Densely clouded with ≀≀, moving NE; a light passing shower of rain at 1h.	
8	H	Densely clouded with ≀≀, moving NE; a light passing shower of rain at 2h. 24m.	
8	H	Densely clouded with ≀≀, moving NE; a light passing shower of rain at 3h.	
8	H	Overcast with ≀≀, moving ENE; a passing shower of rain at 4h. 5m. [50m.	
7	L	≀ and ≀≀ scattered about zth., otherwise clouded with ≀≀, moving E.	
6	L	≀≀ around hor.; ≀≀ scattered about.	
6	L	≀≀ scattered about hor.; ≀≀ in S.	
4	L	≀≀ scattered about, moving E.	
6	L	≀≀ scattered throughout, except in W and SW, moving slowly E.	
2	L	≀≀ scattered here and there, moving E.	
2	L	≀≀ scattered around hor., otherwise clear.	
8	C	Overcast with ≀≀, moving ENE; a passing shower of rain at 57m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°1 and 85°7. Daily fall of rain by Osler's Gauge 0.21. On the 29th the morning minimum was a little earlier, and evening minimum was a little later than usual; its daily range was 0.043, the lowest in the month.
6	H	≀≀ scattered throughout, moving ENE.	
6	H	Clouded as before; light rain at 2h. 6m. which lasted 13m.	
7	H	Densely clouded with ≀≀, moving ENE.	
5	H	≀≀ scattered throughout, moving ENE.	
8	C	Overcast with ≀≀, moving ENE.	
6	C	≀≀ scattered throughout; drizzling rain at 6h. 4m.	
7	C	≀≀ scattered throughout; drizzling rain at 7h. 9m.	
6	C	≀≀ scattered throughout, moving ENE.	
6	H	≀≀ scattered throughout; drizzling rain at 9h. 16m.	
6	H	≀≀ scattered throughout.	
7	H	" " "	
8	H	" " " [1h. 25m. and 1h. 35m.	
8	N	Overcast with ≀≀ in two strata, both moving NE; passing showers of rain at	
8	N	Overcast with ≀≀, moving NE.	
8	N	" " " "	
8	N	" " " " [of rain at 5h. 17m.	
7	C	Densely clouded with ≀≀ and ≀≀, the former moving NE.; a passing shower	
8	C	Overcast with ≀≀ and ≀≀, the former moving NE.	
7	C	≀≀ scattered throughout, moving NE.	
6	C	" " " "	
6	H	Clouded as before; light rain at 9h. 12m. which lasted for 18m.	
8	H	Overcast with ≀≀, moving E; drizzling rain at 10h. 47m.	
7	H	Densely clouded with ≀≀, moving ENE.	
7	H	Densely clouded with ≀≀, moving ENE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°1 and 85°7. Daily fall of rain by Osler's Gauge. On the 30th the morning minimum of Barometer was a little earlier; at 1 P. M. the Temperature of the calculated Dew-point was 81°0, the greatest during the month. Wind was squally from 25th to this day.
8	N	Densely clouded with ≀≀, moving NE; gusts of wind.	
8	N	Overcast with ≀≀, moving NE; a few stars dimly visible about zth.	
8	N	Overcast; light rain at 3h. 10m. which lasted 5m.; gusts of wind.	
8	N	Overcast; wind blowing in gusts.	
8	C	Overcast; drizzling rain at 5h. 5m.	
8	C	Overcast with ≀≀, moving NE.	
7	C	Overcast; drizzling rain at 7h. 55m.	
8	C	Overcast with ≀≀, moving NE.	
7	H	Densely clouded with ≀≀, moving NE.	
8	H	" " " " "	
8	H	Densely clouded with ≀≀, moving NNE; drizzling rain at 11h. 7m.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches above the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the zero-degree of tension after discharge.
	in.	in.							°		lbs.	in.		Sc. div.	Sc. div.	
June 30th-Noon.	29.689	28.662	86°4	82°2	4°2	80°8	0.84	86°3	83°6	SW b W	0.2					
1 p. m.	.681	.649	85.9	82.2	3.7	81.0	.86	86.2	83.9	„	½ to 1½					
2 „	.666	.696	86.7	81.0	5.7	79.0	.79	86.8	83.9	„	0.4					
3 „	.659	.724	86.4	80.1	6.3	79.8	.76	86.2	84.0	„	0.4					
4 „	.647	.724	85.6	79.6	6.0	77.4	.77	85.2	84.0	„	0.5					
5 „	.649	.736	83.8	78.9	4.9	77.1	.81	84.1	84.0	„	0.4					
6 „	.658	.761	82.9	78.3	4.6	76.5	.82	83.2	83.9	„	0.4	None.	None.	None.	None.	None.
7 „	.669	.778	82.4	78.0	4.4	76.3	.83	82.4	83.7	„	0.6					
8 „	.684	.789	82.4	78.1	4.3	76.5	.83	82.7	83.6	„	0.6					
9 „	.688	.791	82.2	78.1	4.1	76.5	.84	82.3	83.5	„	0.5					
10 „	.692	.790	82.1	78.2	3.9	76.7	.85	82.2	83.5	„	0.8					
11 „	.691	.773	81.9	78.5	3.4	77.3	.86	82.2	83.5	„	0.6					
July 1st-Midnight	.680	.805	81.2	77.4	4.3	75.8	.83	82.1	83.5	NW b W	0.4					
1 a. m.	.667	.781	80.2	77.2	3.0	76.1	.88	81.2	83.2	„	¾ to 1¾	0.01				
2 „	.648	.740	80.8	78.0	2.8	76.9	.89	81.0	83.1	„	¾ to 1¾	0.01				
3 „	.642	.732	80.6	78.0	2.6	77.0	.89	81.0	83.1	„	0.5	0.01				
4 „	.642	.749	80.4	77.5	2.9	76.4	.88	80.6	83.0	„	0.4					
5 „	.654	.747	79.8	77.7	2.1	76.9	.91	80.2	82.9	„	½ to 1½	0.02				
6 „	.668	.784	80.4	77.3	3.1	76.1	.87	80.7	82.9	WSW	0.2					
7 „	.690	.801	81.4	78.4	3.0	76.3	.88	81.5	82.9	„	0.3	0.03				
8 „	.695	.823	78.7	76.5	2.2	75.6	.91	79.2	82.6	„	½ to 1¾	0.06				
9 „	.696	.740	82.2	79.5	2.7	78.5	.89	83.0	82.9	SW b S	0.2					
10 „	.700	.762	83.0	79.3	3.7	77.9	.85	83.6	83.0	SW	¼ to 2					
11 „	.687	.720	85.4	80.6	4.8	78.9	.81	85.9	83.2	„	0.2					
Noon.	.677	.707	86.7	81.0	5.7	79.0	.79	86.5	83.5	SW b W	¼ to 2		None.	None.	None.	None.
1 p. m.	.672	.725	87.2	80.6	6.6	78.2	.76	87.0	83.8	„	0.3					
2 „	.663	.683	87.9	81.5	6.4	79.3	.77	87.8	83.9	„	¼ to 3					
3 „	.646	.704	87.3	80.5	6.8	78.1	.75	87.0	84.0	SW	0.2					
4 „	.636	.752	85.0	78.5	6.5	76.1	.75	84.6	84.0	„	0.3					
5 „	.624	.675	84.7	80.0	4.7	78.3	.82	84.6	84.0	„	0.2					
6 „	.628	.715	83.4	78.8	4.6	77.1	.82	83.6	83.8	SW b W	0.2					
7 „	.636	.722	82.6	78.6	4.0	77.1	.84	83.0	83.7	SW	0 to 3					
8 „	.641	.735	81.0	78.0	3.0	76.8	.88	81.5	83.5	„	0 to 1⅓	0.01				
9 „	.642	.755	80.6	77.4	3.2	76.2	.87	81.0	83.4	„	0 to 2					
10 „	.645	.730	80.9	78.2	2.7	77.2	.89	81.9	83.2	WSW	0 to 2	0.02				
11 „	.632	.756	80.1	77.0	3.1	75.8	.87	80.5	83.1	„	0.5					
July 2nd-Midnight	.622	.751	79.8	76.8	3.0	75.6	.88	80.2	83.0	SW	0 to 1⅓					
1 a. m.	.608	.691	80.0	78.0	2.0	77.2	.92	80.6	83.0	„	0.3	0.02				
2 „	.575	.662	80.4	78.0	2.4	77.1	.90	81.2	82.9	„	0.6	0.02				
3 „	.568	.693	79.4	76.8	2.6	75.8	.89	80.2	82.7	„	0 to 3¾					
4 „	.572	.740	77.0	75.0	2.0	74.2	.89	77.2	82.5	WSW	0 to 2½	0.01				
5 „	.578	.669	79.0	77.5	1.5	76.9	.94	80.1	82.3	„	0 to 2½	0.06				
6 „	.595	.710	80.3	77.5	2.8	76.1	.88	80.9	82.5	SW	0.2					
7 „	.615	.709	81.0	78.0	3.0	76.8	.88	81.8	82.5	SW b W	0 to 3¼					
8 „	.616	.719	81.1	77.8	3.3	76.5	.87	81.9	82.5	WSW	1 to 4					
9 „	.633	.699	83.0	79.2	3.8	77.8	.85	83.6	82.7	„	1 to 2					
10 „	.641	.701	83.7	79.5	4.2	78.0	.84	84.2	82.9	W b S	1 to 2¼					
11 „	.627	.666	86.0	80.6	5.4	78.7	.80	86.3	83.2	„	0.2					
Noon.	.625	.677	85.6	80.2	5.4	78.3	.80	86.1	83.2	W	0.2	0.02	None.	None.	None.	None.
1 p. m.	.637	.666	86.6	81.0	5.6	79.0	.79	87.2	83.5	WSW	0.2	0.02				
2 „	.634	.684	86.2	80.4	5.8	78.3	.78	86.8	83.8	„	0.3					
3 „	.617	.654	86.6	80.8	5.8	78.8	.78	87.0	84.0	„	0 to 1					
4 „	.607	.695	86.6	79.6	7.0	77.1	.74	86.4	84.1	„	0.2					
5 „	.615	.698	84.6	79.2	5.4	77.2	.79	84.8	84.1	„	0.2					
6 „	.619	.700	83.6	79.0	4.6	77.3	.82	84.0	83.9	W b S	0.2					
7 „	.631	.727	82.7	78.4	4.3	76.8	.83	83.4	83.7	„	0.3					
8 „	.649	.736	82.3	78.5	3.8	77.1	.85	83.0	83.6	SW	0.2					
9 „	.652	.757	82.0	78.0	4.0	76.5	.84	82.2	83.5	„	0.2					
10 „	.662	.757	81.8	78.2	3.6	76.8	.86	82.2	83.5	„	0.2					
11 „	.655	.756	81.6	78.0	3.6	76.6	.86	82.1	83.4	SW b W	0.2					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: Ci cirri; Ci cirro-cumuli; Cu cumuli; Cs cirro-strati; Cu cumulo-strati; and Ni nimbi.	
8	H	Overcast with Ci, moving NNE.	
8	N	Overcast with Ci, moving NE.	
8	N	Overcast; a passing shower of rain at 2h. 45m.	
6	N	Ci scattered throughout, moving NE.	
7	N	" " " "	
8	C	" " " "	
8	C	" " " "	
7	C	" " " "	
8	C	Overcast with Ci; a few stars visible NW of zth.	
8	H	Overcast; a solitary star visible NW of zth.	
8	H	Overcast in two strata with Ci, moving NE.	
8	H	Clouded as before; drizzling rain at 11h. 14m.	
8	H	Overcast in two strata with Ci, moving NE; a passing shower of rain at 30m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°1 and 85°7. Daily fall of rain by Osler's Gauge 0.18. On the 1st the evening minimum of Barometer was a little later than usual; at 8 A. M. the Wet Bulb Thermometer fell 19° and rose 30° the next hour.
8	N	Overcast; a few stars dimly visible in SW; a passing shower of rain at 1h. 54m.	
8	N	Overcast; rain accompanied with wind at 2h. 50m. [3h. 7m.	
7	N	Ci scattered throughout, moving NE; a flash of lightning observed in S at	
6	N	Clouded as before; a passing shower of rain at 4h. 43m.; wind blowing in gusts.	
6	C	Ci scattered throughout, moving NE.	
7	C	Ci scattered about; a few Ni around zth. [7h. 20m. which lasted 25m.	
8	C	Overcast with Ci, moving NE; light rain at 7h. which lasted 13m. and at	
8	C	Overcast; drizzling rain at full hour.	
8	H	Overcast with Ci, moving NE.	
8	H	" " "	
8	H	" " "	
7	H	Nearly overcast; drizzling rain at 4m.	
6	N	Densely clouded with Ci, moving NE.	
6	N	" " " "	
8	N	Clouded as before; a few drops of rain at 3h. 45m.	
8	N	Overcast with Ci, moving NE.	
7	C	Ci scattered throughout, moving NE; a passing shower of rain at 5h. 17m.	
8	C	Ci around hor.; Ni and Ci scattered throughout.	
7	C	Densely clouded with Ci, moving NE; a passing shower of rain at 7h. 35m.	
5	C	Ni about zth.; Ci scattered throughout, moving NE; drizzling rain at 8h. 14m.	
7	H	Densely clouded with Ci, moving NE; drizzling rain at 9h. 16m. which lasted	
8	H	Overcast with Ci; a few stars dimly visible in S. [17m.	
8	H	Overcast; a few stars dimly visible.	
8	H	Overcast; a passing shower of rain at 40m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°6. Daily fall of rain by Osler's Gauge 0.13. On the 2nd there were three distinct maximum and minimum of Barometer apparant; at 1 A. M. the Wet Bulb Thermometer rose 1°2 and in next two hours it fell 3°0, and again at 5 A. M. it rose 2°5.
8	N	Overcast; a passing shower of rain at 1h. 30m.	
8	N	Overcast; a few drops of rain at 2h. 28m; a few stars dimly visible.	
8	N	Overcast; rain and wind at 3h. 50m.	
8	N	Overcast; rain ceased at 4h. 12m. it recommenced at 4h. 25m. which lasted 20m.	
8	C	Overcast.	
8	C	"	
8	C	Overcast; drizzling rain at 7h. 47m.	
8	H	Overcast.	
8	H	Overcast; light rain at 9h. 7m.	
8	H	Overcast.	
8	H	"	
8	H	Overcast; a shower of rain at 7m. which lasted 5m.	
8	N	Overcast with Ci, moving ENE.	
8	N	" " " "	
8	N	" " " "	
8	N	Clouded as before; hazy.	
7	C	Densely clouded with Ci, moving NE.	
5	C	Ci scattered about, moving NE.	
5	C	Clouded as before; a passing shower of rain, at 7h. 28m.	
6	C	Ci scattered throughout, moving ENE.	
6	H	" " " "	
6	H	" " " "	
6	H	" " " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
July 3rd-Midnight	29.644	28.742	81°4	78°0	3°4	76°7	0.86	82°1	83°3	SW b W	0.2					
1 a. m.	.619	.804	80.3	75.5	4.8	73.5	.81	81.0	83.1	„	0.3					
2 „	.606	.734	79.0	76.4	2.6	75.6	.89	80.2	83.0	SW	0.7					
3 „	.600	.779	78.4	75.1	3.3	73.8	.86	79.4	82.5	W b N	1.0					
4 „	.602	.710	79.4	77.2	2.2	76.4	.91	80.2	82.5	WNW	0.4					
5 „	.619	.727	80.5	77.5	3.0	76.4	.88	81.2	82.8	SW b W	0.3					
6 „	.631	.773	80.0	76.5	3.5	75.1	.86	80.7	82.6	WSW	0.2					
7 „	.643	.766	80.0	77.0	3.0	75.8	.88	80.7	82.5	„	0.0					
8 „	.653	.795	82.8	77.3	5.5	75.1	.79	83.3	82.8	„	0.1					
9 „	.654	.800	83.2	77.3	5.9	75.0	.80	83.4	82.9	„	0.2					
10 „	.670	.793	83.6	78.0	5.6	75.8	.78	84.2	83.0	„	0.1					
11 „	.659	.732	84.4	79.4	5.0	77.6	.81	84.0	83.3	„	0.1	0.05				
Noon.	.648	.702	85.0	80.0	5.0	78.2	.81	85.9	83.3	„	0.1		+	1	None.	Above 10m.
1 p. m.	.640	.636	85.7	81.5	4.2	80.1	.84	86.4	83.4	„	0.3					
2 „	.623	.666	87.2	80.8	6.4	78.9	.76	87.2	83.7	„	0.4					
3 „	.602	.699	87.4	79.6	7.8	76.7	.71	87.2	84.0	„	0.2					
4 „	.600	.655	85.1	80.0	5.1	78.2	.80	85.4	84.0	„	0.1					
5 „	.595	.651	84.4	79.8	4.6	78.1	.82	84.8	84.0	„	0.1					
6 „	.604	.682	83.4	79.0	4.4	77.4	.83	83.4	83.8	W b S	0.1					
7 „	.615	.758	81.8	77.0	4.8	75.1	.81	81.2	83.7	„	0.1	00.1				
8 „	.624	.710	81.8	78.4	3.4	77.1	.86	82.2	83.5	„	0.2					
9 „	.628	.704	81.7	78.6	3.1	77.5	.87	82.1	83.4	„	0.2					
10 „	.640	.709	81.8	78.8	3.0	77.7	.88	82.1	83.4	W	0.2					
11 „	.639	.724	81.7	78.4	3.3	77.2	.87	82.0	83.4	W b S	0.2					
July 4th-Midnight	.625	.744	81.5	77.5	4.0	76.0	.84	81.4	83.3	W	0.3					
1 a. m.	.612	.742	80.6	77.0	3.6	75.6	.86	80.6	83.0	WNW	0.1					
2 „	.594	.678	80.8	78.2	2.6	77.2	.89	81.0	83.0	W	0.1					
3 „	.580	.691	80.8	77.5	3.3	76.3	.87	81.0	83.0	„	0.2					
4 „	.582	.669	80.4	78.0	2.4	77.1	.90	80.6	82.9	W b S	0.1					
5 „	.588	.692	80.8	77.7	3.1	76.5	.87	81.2	82.9	„	0.1					
6 „	.606	.738	80.8	77.0	3.8	75.5	.85	81.2	82.8	W	0 to 3⅛					
7 „	.626	.780	81.0	76.5	4.5	74.7	.82	81.3	82.8	W b S	0.2					
8 „	.644	.777	82.4	77.4	5.0	75.5	.80	82.6	82.9	„	0.2					
9 „	.657	.734	83.3	79.0	4.3	77.4	.83	83.5	83.1	„	0.1					
10 „	.665	.767	85.9	79.1	6.8	76.6	.75	85.4	83.5	„	0.2					
11 „	.656	.700	86.8	80.7	6.1	78.5	.77	86.3	83.7	„	0.2					
Noon.	.648	.687	87.5	81.0	6.5	78.7	.76	87.1	84.0	WSW	0.4			None.	None.	None.
1 p. m.	.639	.681	87.8	81.0	6.8	78.6	.75	87.4	84.0	„	0.3					
2 „	.624	.665	88.9	81.3	7.6	78.6	.73	88.3	84.3	„	0.1					
3 „	.610	.638	87.9	80.2	7.7	77.4	.72	87.4	84.4	„	0.1					
4 „	.597	.665	87.5	80.3	7.2	77.7	.74	87.2	84.5	„	0.2					
5 „	.593	.692	85.6	79.1	6.5	76.7	.76	85.3	84.5	„	0.2					
6 „	.606	.730	81.2	77.3	3.9	75 8	.83	82.2	84.0	„	0.1	0.05	0.01			
7 „	.617	.695	81.0	78.4	2.6	77.4	.88	81.6	83.7	W b S	0.2	0.13				
8 „	.636	.733	81.6	78.1	3.5	76.7	.86	81.9	83.6	„	0.2					
9 „	.652	.744	81.6	78.2	3.4	76.8	.86	81.9	83.6	„	0.3					
10 „	.654	.781	80.4	77.0	3.4	75.7	.86	80.9	83.4	SW b W	0.2					
11 „	.655	.770	79.3	77.0	2.3	76.1	.90	79.9	83.2	„	0.5					
July 6th-Midnight	.611	.712	81.6	78.0	3.6	76.6	.85	81.9	83.3	W b N	0.1					
1 a. m.	.593	.685	80.4	77.9	2.5	76.8	.90	82.0	83.1	W b S	¼ to 2¾	0.02				
2 „	.573	.664	80.7	78.0	2.7	76.8	.89	81.0	83.0	„	0.5	0.01				
3 „	.572	.656	80.8	78.2	2.6	77.2	.89	80.8	83.0	W b N	0.3					
4 „	.572	.631	80.9	78.8	2.1	78.0	.91	80.8	83.0	W b S	0.5					
5 „	.571	.581	81.0	78.0	1.0	79.5	.96	81.2	82.9	„	0.4					
6 „	.597	.684	80.4	78.0	2.4	77.1	.90	81.0	82.7	„	0.2		None.	None.	None.	None.
7 „	.621	.709	81.9	78.4	3.5	77.1	.86	82.5	82.9	„	0.3					
8 „	.634	.722	82.8	78.6	4.2	77.1	.83	83.1	83.1	SW b W	0.3					
9 „	.632	.738	83.6	78.4	5.2	76.4	.80	83.9	83.2	SW	0.2					
10 „	.630	.728	85.2	79.0	6.2	76.7	.76	84.6	83.5	„	0.1					
11 „	.626	.669	86.7	80.7	6.0	78.6	.78	86.6	83.6	„	0.1					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ⌒i cirri; ⌒i cirro-cumuli; ⌒i cumuli; ⌒i cirro-strati; ⌒i cumulo-strati; and ⌒i nimbi.	
7	H	Densely clouded with ⌒i, moving ENE; light rain at 50m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°6. Daily fall of rain by Osler's Gauge 0.07. At 1 P. M. the Temperature of deduced Dew-point was 73°5, least during the month.
8	N	Densely clouded with ⌒i, moving NE; a passing shower of rain at 1h. 43m.	
8	N	Overcast; a passing shower of rain at 2h. 10m.	
8	N	Overcast; gusts of wind from W.	
8	N	Overcast; light rain at full hour.	
6	C	⌒i in NE; ⌒i scattered throughout.	
8	C	Overcast with ⌒i, moving NE.	
8	C	Overcast; drizzling rain at full hour.	
8	C	Overcast with ⌒i, moving ENE.	
8	H	" " " "	
8	H	Overcast; a passing shower of rain at 10h. 58m.	
8	H	Overcast; drizzling rain from full hour to 11h. 7m.	
7	H	Densely clouded with ⌒i, moving ENE; drizzling rain at 16m.	
6	N	⌒i scattered throughout, moving E; hazy.	
7	N	" " " " "	
8	N	" " " " "	
8	N	" " " " "	
7	C	Densely clouded with ⌒i, moving E.	
7	C	⌒i about hor.; ⌒i around zth., both moving E; drizzling rain at 6h. 54m.	
8	C	Overcast with ⌒i, moving E; drizzling rain.	
6	C	⌒i scattered throughout, moving E.	
8	H	Overcast with ⌒i, moving ENE; a few stars dimly visible.	
8	H	Overcast in two strata with ⌒i, moving ENE.	
8	H	" " " " "	
8	H	Overcast; a few drops of rain at 45m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°6. Daily fall of rain by Osler's Gauge 0.18.
6	N	⌒i scattered about, moving E.	
6	N	Overcast with ⌒i, moving E.	
6	N	⌒i scattered about, moving E.	
4	N	" " " "	
7	C	⌒i scattered about, moving ENE.	
7	H	" " " "	
8	H	Overcast with ⌒i, moving ENE.	
8	H	Overcast with ⌒i, moving NE.	
8	C	" " " "	
4	C	⌒i scattered about, moving ENE; a few ⌒i in SE.	
3	C	Dense ⌒i scattered about, moving ENE.	
5	C	Dense ⌒i scattered about, moving ENE; a few ⌒i in SE.	
8	N	Overcast with ⌒i, moving NE.	
8	N	" " "	
8	N	" " "	
6	N	⌒i scattered throughout, moving NE.	
5	C	Clouded as before; light rain accompanied with gusts of wind at 5h. 19m.	
7	C	Densely clouded with ⌒i, moving NE; light rain from 6h. to 6h. 37m.	
7	C	⌒i scattered throughout, moving NE.	
4	C	⌒i around hor.; ⌒i in SE.	
5	C	⌒i scattered about, moving NE.	
8	C	Overcast with ⌒i, moving NE; a passing shower of rain at 10h. 34m.	
8	C	Overcast in two strata with ⌒i, moving ENE.	
7	C	Densely clouded with ⌒i, moving ENE; light rain at 48m.	On the 6th from 2 A. M. to 5 A. M. the Barometer was rather steady and morning maximum occurred 2 hours before the usual hour.
8	H	Clouded as before; light rain at 1h. 12m. and at 1h. 39m.	
8	H	Clouded as before.	
7	H	" "	
7	H	Clouded as before; drizzling rain at 4h. 24m. which lasted 6m.	
7	L	Densely clouded with ⌒i, moving NE; a passing shower of rain at 5h. 33m.	
8	L	Densely Clouded with ⌒i, moving NE; no rain.	
8	L	" " " " "	
7	L	" " " " "	
8	C	" " " " "	
8	C	⌒i and ⌒i scattered throughout, both moving NE.	
7	C	⌒i scattered about, moving NE.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-Point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the ground.	Thermometer d in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Strawe of Volta 1.	Readings of Strawe of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.					.				lbs.	in.		Sc. div.	Sc. div.	
July 6th-Noon.	29.613	28.651	87°8	81°1	6°7	78°7	0.75	87°4	84°0	SW	0.2					
1 p. m.	.601	.649	88.4	81.0	7.4	78.4	.73	88.2	84.1	W b S	0.2					
2 „	.583	.576	88.2	82.2	6.0	80.2	.78	88.3	84.2	WSW	0.2					
3 „	.568	.596	87.4	81.2	6.2	79.1	.77	87.4	84.2	„	0.2					
4 „	.555	.604	85.3	80.2	5.1	78.4	.80	85.1	84.2	W b S	0.2	0.01				
5 „	.564	.610	84.6	80.1	4.5	78.5	.83	84.7	84.1	„	0.3					
6 „	.569	.647	83.4	79.0	4.4	77.4	.83	83.6	84.0	„	0.4					
7 „	.578	.650	82.8	79.0	3.8	77.6	.85	83.2	83.9	„	0.4		None.	None.	None.	None.
8 „	.595	.665	82.6	79.0	3.6	77.7	.86	82.9	83.9	„	0.5					
9 „	.607	.683	82.4	78.8	3.6	77.5	.86	82.9	83.8	„	0.5					
10 „	.612	.709	82.4	78.3	4.1	76.7	.84	82.7	83.7		0.6					
11 „	.607	.695	81.2	78.2	3.0	77.1	.88	81.6	83.6	SW b W	0.3					
July 7th-Midnight	.590	.651	81.8	79.0	2.8	78.0	.89	82.2	83.5	WSW	0.5					
1 a. m.	.570	.702	80.8	77.0	3.8	75.5	.85	82.5	83.3	W b N	0 to 2					
2 „	.560	.709	78.8	76.0	2.8	74.9	.88	79.1	83.0	„	0 to 2	0.05				
3 „	.556	.622	80.4	78.5	1.9	77.8	.92	80.8	83.0	W	0.2					
4 „	.554	.646	80.8	78.0	2.8	76.9	.89	81.0	83.1	„	0.2					
5 „	.566	.664	80.6	77.8	2.8	76.7	.89	81.0	83.0	WSW	0.4					
6 „	.588	.682	81.0	78.0	3.0	76.8	.88	81.5	83.0	„	0.2					
7 „	.591	.646	82.0	79.2	2.8	78.2	.89	83.6	83.1	„	0.3					
8 „	.607	.648	83.8	80.0	3.8	78.6	.85	84.2	83.3	„	0.2					
9 „	.623	.711	82.8	78.6	4.2	77.1	.83	82.8	83.5	WNW	0 to 1½					
10 „	.626	.679	80.0	78.7	1.3	78.2	.95	81.0	83.0	W	0 to 1¼	0.12				
11 „	.624	.724	81.2	77.9	3.3	76.6	.87	82.2	83.0	W b S	0 to ¾					
Noon.	.621	.662	83.8	80.0	3.8	78.6	.85	84.2	83.4	„	0.3		None.	None.	None.	None.
1 p. m.	.604	.659	85.1	80.0	5.1	78.2	.80	85.6	83.4	WSW	0 to 1					
2 „	.594	.648	85.4	80.1	5.3	78.2	.80	86.1	83.6	„	0 to 1½					
3 „	.577	.629	84.8	80.0	4.8	78.3	.81	85.2	83.6	„	0 to ¾					
4 „	.575	.610	86.0	80.7	5.3	78.5	.80	86.2	83.7	„	0 to ½					
5 „	.578	.642	84.0	79.5	4.5	77.9	.83	84.5	83.9	„	0 to ½					
6 „	.588	.639	82.4	79.4	3.0	78.3	.88	82.8	83.7	W	0.2					
7 „	.597	.660	82.0	79.0	3.0	77.9	.88	82.8	83.6	„	0.2					
8 „	.607	.676	81.8	78.8	3.0	77.7	.88	82.7	83.5	W b S	0.1					
9 „	.624	.693	81.4	78.7	2.7	77.7	.89	82.2	83.4	„	0.1	0.02				
10 „	.628	.689	81.4	78.9	2.5	78.0	.90	82.2	83.4	WSW	0.1					
11 „	.625	.697	81.6	78.6	3.0	77.6	.88	82.3	83.3	„	0.1					
July 8th-Midnight	.620	.740	81.2	77.4	3.8	75.9	.85	82.0	83.3	WSW	0.1					
1 a. m.	.603	.718	80.8	77.4	3.4	76.1	.86	81.5	83.2	„	0.2					
2 „	.587	.658	81.6	78.7	2.9	77.6	.88	82.2	83.2	„	0.2					
3 „	.581	.650	81.4	78.7	2.7	77.7	.89	82.2	83.2	W b S	0.6					
4 „	.579	.656	81.4	78.5	2.9	77.4	.88	82.1	83.1	„	0.8					
5 „	.583	.673	81.4	78.2	3.2	77.0	.87	82.0	83.1	„	0.5					
6 „	.605	.685	81.2	78.4	2.8	77.3	.89	82.0	83.0	„	0.3					
7 „	.627	.692	82.2	79.0	3.2	77.8	.87	83.0	83.0	„	0.2					
8 „	.641	.680	83.6	80.0	3.6	78.7	.86	84.2	83.2	„	0.2					
9 „	.654	.651	85.3	81.4	3.9	80.1	.85	86.0	83.5	„	0.1					
10 „	.656	.670	85.6	81.1	4.5	79.5	.83	86.4	83.5	„	0.1					
11 „	.659	.690	85.6	80.7	4.9	79.0	.81	85.9	83.7	W	0.2					
Noon.	.654	.634	85.8	81.9	3.9	80.6	.82	86.2	83.9	„	0.4	0.04	None.	None.	None.	None.
1 p. m.	.647	.639	86.4	81.8	4.6	80.2	.82	86.8	83.9	W b S	0.4					
2 „	.631	.654	87.3	81.3	6.0	79.2	.78	87.2	84.2	W	0.3					
3 „	.620	.618	86.2	81.6	4.6	80.0	.82	86.2	84.2	„	0.2					
4 „	.612	.687	83.1	79.0	4.1	77.5	.84	83.5	84.0	„	0.3					
5 „	.616	.618	83.4	80.8	2.6	79.9	.90	83.8	83.9	W b S	0.2					
6 „	.629	.703	83.0	79.0	4.0	77.5	.84	83.5	83.9	„	0.3					
7 „	.642	.699	82.2	79.2	3.0	78.1	.88	82.9	83.7	„	0.2					
8 „	.652	.748	81.2	78.0	3.2	76.8	.87	81.8	83.7	„	0.2	0.03				
9 „	.660	.719	81.6	79.0	2.6	78.0	.89	82.5	83.6	„	0.2					
10 „	.670	.729	81.6	79.0	2.6	78.0	.89	82.2	83.6	„	0.1					
11 „	.658	.714	81.4	79.0	2.4	78.1	.90	82.1	83.5	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤≤ cirro-cumuli; ∧ cumuli; ⌒ cirro-strati; ∧⌒ cumulo-strati; and ≋ nimbi.	
8	C	≋ around hor., moving E; ≋ about zth.	
7	H	Densely clouded with ≋, moving E.	
7	H	Densely clouded with ≋, moving ENE.	
8	H	Densely clouded with ≋, moving E; light rain at 3h. 28m. and at 3h. 47m.	
8	H	Densely clouded with ≋, moving ENE; no rain.	
7	L	≋ scattered throughout, moving NE; ≋ and ≤ in E, SE, and S.	
7	L	" " " " " "	
8	L	Overcast with ≋, moving NE.	
8	L	Overcast with ≋, moving NE; a few drops of rain at 8h. 19m.	
8	C	Overcast with ≋, moving ENE; drizzling rain at 9h. 43m.	
8	C	Overcast with ≋, moving ENE; drizzling rain at 10h. 5m.	
8	C	Overcast; a lunar-halo.	
8	C	Densely clouded with ≋, moving NE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°6. Daily fall of rain by Osler's Gauge 0.19; the reading of Barometer at 4 A M. was 29.554, the least during the month.
8	H	Densely clouded with ≋, moving NE; drizzling rain at 1h. 48m.	
8	H	Densely clouded with ≋, moving ENE; drizzling rain now and then.	
8	H	Densely clouded with ≋, moving ENE; a passing shower of rain at 3h. 20m.	
8	H	Densely clouded with ≋, moving ENE; a passing shower of rain at 4h. 12m.	
8	L	Densely clouded with ≋, moving ENE; no rain.	
8	L	" " " " "	
7	L	Densely clouded with ≋, moving ENE; a few light ≤ about zth.	
7	L	" " " " " "	
8	C	Densely clouded with ≋, moving ENE; light rain at 9h. 10m.	
8	C	Densely clouded with ≋, moving ENE; drizzling at full hour at 10h. 17m.	
8	C	Densely clouded with ≋, moving ENE; no rain.	
8	C	" " " " "	
7	H	" " " " "	
8	H	Densely clouded with ≋, moving NE.	
8	H	" " " "	
7	H	Densely clouded with ≋, moving ENE.	
8	L	Densely clouded with ≋, moving ENE; a passing shower of rain at 5h. 44m.	
8	L	Densely clouded with ≋, moving ENE; a passing shower of rain at 6h. 43m.	
8	L	Densely clouded with ≋, moving ENE; a few drops of rain at 7h. 25m.	
8	L	Densely clouded with ≋, moving ENE; a passing shower of rain at 8h. 16m.	
8	C	Overcast; no rain.	
8	C	Overcast; drizzling rain at 10h. 7m.	
8	C	Overcast; no rain.	
7	C	Densely clouded with ≋, moving ENE; a lunar-halo. [lasted 11m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°6. Daily fall of rain by Osler's Gauge 0.06. On the 8th the morning maximum of Barometer was a little later.
8	H	Overcast with ≋, moving ENE; light drizzling rain at 1h. 5m. which	
8	H	Overcast with ≋, moving ENE.	
8	H	" " "	
8	H	" " "	
8	L	Overcast with ≋, moving NE.	
8	L	" " "	
8	L	Overcast with ≋, moving NE; a few ≤ about zth. [of rain at 8h. 17m.	
8	L	Densely clouded with ≋, moving NE; ≤ in W, NW, and about zth.; drops	
8	C	Overcast with ≋, moving NE.	
8	C	" " "	
8	C	Overcast with ≋, moving ENE; light rain at 11h. 24m. which lasted 32m.	
8	C	Densely clouded with ≋, moving ENE.	
8	H	" " " "	
7	H	" " " "	
8	H	" " " "	
8	H	" " " "	
8	L	" " " "	
8	L	Clouded as before; a few drops of rain at 6h. 26m.	
8	L	Clouded as before; light rain at 7h. 8m. which lasted 7m.	
7	L	Clouded as before; no rain.	
8	L	" " "	
8	L	Overcast; a shower of rain at 10h. 16m.	
8	C	Overcast with ≋, moving ENE.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in seconds in the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
July 9th-Midnight	29.647	28.699	81°7	79°2	2°5	78°3	0.90	82°5	83°4	W b S	0.3					
1 a. m.	.640	.696	81.4	79.0	2.4	78.1	.90	82.2	83.3	„	0.2					
2 „	.636	.707	81.2	78.6	2.6	77.6	.89	82.0	83.3	„	0.1					
3 „	.629	.691	81.2	78.8	2.4	77.9	.90	82.1	83.2	„	0.4					
4 „	.628	.696	81.0	78.6	2.4	77.7	.90	81.6	83.1	W b N	0.3					
5 „	.634	.557	80.0	77.0	3.0	75.8	.88	81.0	82.9	„	0.3					
6 „	.655	.707	81.0	79.0	2.0	78.3	.92	81.6	83.0	W b S	0.2					
7 „	.664	.729	82.2	79.0	3.2	77.8	.87	83.0	83.0	„	0.2					
8 „	.684	.741	83.8	79.6	4.2	78.1	.84	84.2	83.3	„	0.3					
9 „	.697	.721	85.0	80.7	4.3	79.2	.83	85.4	83.5	„	0.2					
10 „	.707	.743	85.7	80.6	5.1	78.8	.80	86.2	83.6	„	0.2					
11 „	.715	.740	86.3	81.0	5.3	79.2	.80	86.3	83.9	„	0.3					
Noon.	.704	.700	87.3	81.9	5.4	80.1	.80	87.4	84.0	W	0.2	0·03	None.	None.	None.	None.
1 p. m.	.692	.690	87.8	82.0	5.8	80.0	.79	88.1	84.2	„	0.3					
2 „	.683	.690	87.8	81.8	6.0	79.7	.78	87.8	84.4	„	0.2					
3 „	.676	.720	88.0	81.0	7.0	78.5	.74	87.8	84.5	W b N	0.2					
4 „	.671	.700	86.6	81.0	5.6	79.0	.79	86.6	84.5	W	0.2					
5 „	.676	.719	85.6	80.4	5.2	78.6	.80	85.8	84.5	W b N	0.2					
6 „	.693	.766	84.0	79.3	4.7	77.6	.82	84.2	84.3	„	0.3					
7 „	.700	.774	83.0	79.0	4.0	77.5	.84	83.6	84.1	„	0.2					
8 „	.708	.778	82.6	79.0	3.6	77.7	.86	83.4	84.0	„	0.2					
9 „	.715	.785	82.6	79.0	3.6	77.7	.86	83.3	84.0	„	0.5					
10 „	.713	.769	82.5	79.3	3.2	78.1	.87	83.0	83.9	„	0.2					
11 „	.701	.766	82.2	79.0	3.2	77.8	.87	82.8	83.8	„	0.4					
July 10th-Midnight	.684	.747	82.0	79.0	3.0	77.9	.88	82.7	83.7	W b N	0.3					
1 a. m.	.672	.729	81.8	79.1	2.7	78.1	.89	82.4	83.6	„	0.6					
2 „	.664	.717	81.8	79.2	2.6	78.2	.89	82.4	83.5	„	0.4					
3 „	.654	.707	81.8	79.2	2.6	78.2	.89	82.4	83.5	„	0.3					
4 „	.649	.697	81.8	79.3	2.5	78.4	.90	82.3	83.4	W	0.3					
5 „	.653	.782	81.6	78.6	3.0	77.5	.88	82.2	83.4	NW b W	0.5					
6 „	.662	.744	81.4	78.4	3.0	77.3	.88	82.0	83.4	„	0.4					
7 „	.669	.780	82.9	79.5	3.4	78.3	.86	83.4	83.4	„	0.4					
8 „	.680	.717	85.0	80.4	4.6	78.8	.82	85.8	83.6	„	0.4					
9 „	.693	.717	86.2	81.0	5.2	7.92	.80	86.3	84.0	„	0.3					
10 „	.696	.720	87.8	81.4	6.4	79.2	.77	88.2	84.2	„	0.2					
11 „	.698	.724	87.9	81.4	6.5	79.1	.76	88.2	84.5	„	0.2					
Noon.	.689	.716	88.5	81.5	7.0	79.1	.75	88.4	84.6	„	0.3					
1 p. m.	.682	.774	88.2	80.2	8.0	76.9	.71	88.2	84.6	W	0.3	Immeasurable.	None.	None.	None.	None.
2 „	.664	.744	87.4	80.0	7.4	77.3	.73	87.6	84.6	„	0.2					
3 „	.663	.698	88.4	81.3	7.1	78.8	.74	88.2	84.8	W b N	0.1					
4 „	.653	.716	86.6	80.2	6.4	77.9	.76	86.6	84.7	„	0.1					
5 „	.651	.710	86.2	80.2	6.0	78.0	.78	86.4	84.7	„	0.2					
6 „	.663	.752	84.4	79.0	5.4	77.0	.79	84.7	84.5	„	0.2					
7 „	.669	.753	83.2	78.8	4.4	77.2	.83	83.6	84.4	W	1.2					
8 „	.674	.760	82.6	78.6	4.0	77.1	.84	83.5	84.3	„	0.3					
9 „	.688	.781	82.4	78.4	4.0	76.9	.84	83.1	84.1	„	0.3					
10 „	.701	.796	82.2	78.3	3.9	76.8	.94	83.0	84.0	„	0.2					
11 „	.691	.786	81.8	78.2	3.6	76.8	.86	82.7	83.9	W b S	0.3					
July 11th-Midnight	.682	.771	81.7	78.3	3.4	77.0	.86	82.6	83.8	W b S	0.3					
1 a. m.	.663	.743	81.7	78.5	3.2	77.3	.87	82.4	83.7	„	0.3					
2 „	.653	.740	81.4	78.2	3.2	77.1	.87	82.2	83.6	„	0.4					
3 „	.644	.729	81.3	78.3	3.0	77.2	.88	82.2	83.5	W	0.2					
4 „	.642	.718	81.3	78.5	2.8	77.5	.89	82.2	83.5	„	0.3					
5 „	.661	.743	81.4	78.4	3.0	77.3	.88	82.2	83.5	„	0.3					
6 „	.673	.755	81.4	78.4	3.0	77.3	.88	82.4	83.4	„	0.3					
7 „	.681	.799	82.2	77.7	4.5	76.0	.82	83.2	83.3	W b N	0.3	Immeasurable.	None.	None.	None.	None.
8 „	.690	.801	84.5	78.5	6.0	76.3	.77	85.5	83.6	WNW	0.4					
9 „	.699	.809	87.0	79.2	7.8	76.3	.71	87.2	84.0	„	0.2					
10 „	.700	.788	88.1	80.0	8.1	77.1	.71	88.2	84.2	W	0.1					
11 „	.706	.740	88.7	81.4	7.3	78.9	.74	89.1	84.4	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩∩ cumulo-strati; and ≀≀≀ nimbi.	
6	C	≀≀ scattered about, moving ENE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°6. Daily fall of rain by Osler's Gauge 0.03.
4	C	Clouded as before; a few ≀≀ in SW.	
4	C	≀≀ scattered around hor., moving ENE; a few ≀≀ in SW and SE.	
8	C	Overcast with ≀≀ and ≀≀≀, moving ENE.	
7	C	Densely clouded with ≀≀≀, moving NE; ≀≀ in S hem.	
8	L	Overcast with ≀≀≀, moving E.	
8	L	" " "	
8	L	≀≀≀ and ≀≀ scattered throughout, moving E.	
8	L	" " " " "	
7	C	Clouded as before; a few ≀ in S; a few drops of rain at 9h. 15m.	
8	C	Overcast with ≀≀≀, moving E.	
8	C	" " "	
7	C	Densely clouded with ≀≀≀; a shower of rain at 0h. 9m. which lasted 5m.	
8	N	Overcast with ≀≀≀, moving E.	
8	N	Overcast with ≀≀≀, moving E; a few drops of rain at the time of observation.	
8	N	Overcast with ≀≀≀, moving E.	
8	N	" " "	
8	L	≀≀≀ around hor., ≀≀ scattered throughout, moving E.	
8	L	≀≀≀ and ≀≀ scattered throughout, both moving E.	
6	L	≀≀≀ around hor.; ≀ scattered about.	
5	L	≀≀≀ scattered about, moving E.	
8	C	Overcast with ≀≀≀; a few stars dimly visible.	
6	C	≀≀≀ scattered throughout; ≀≀ in SE and S.	
7	C	≀≀≀ scattered throughout; a few ≀ in NE; light drizzling rain at 11h. 56m.	
8	C	Overcast; rain ceased at 0h. 3m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°5. On this day the range of Barometer was 0.052, the least in the month.
8	N	Overcast; gusts of wind blowing from W.	
8	N	" " " "	
8	N	" " " "	
8	N	" " " "	
8	L	" " " "	
7	L	≀≀≀ and ≀≀ scattered throughout, both moving E.	
7	L	≀≀≀ scattered throughout, moving E; a few ≀ about zth.	
8	L	≀≀≀ scattered throughout; a few ≀ in S.	
7	C	" " " "	
7	C	≀≀≀ around hor.; ≀≀ scattered about zth.	
8	C	≀≀≀ and ≀≀ scattered throughout, both moving E.	
8	C	" " " " "	
8	N	Overcast with ≀≀≀, moving E.	
6	N	≀≀≀ scattered about, moving E.	
6	N	" " " "	
7	N	" " " "	
6	L	≀≀≀ and ≀≀ scattered throughout, both moving E.	
5	L	≀≀≀ scattered about, moving E; a few ≀ in NE and E.	
6	L	≀≀≀ and ≀≀ scattered about, the former moving E.	
3	L	≀≀≀ scattered about hor., moving E.	
2	C	A few ≀≀≀ in NW, N, and NE.	
2	C	≀≀≀ from NW to E hor.; patches of ≀≀ scattered about.	
3	C	≀≀≀ around hor.; ≀≀ about zth.	
5	C	≀≀≀ scattered about; a few patches of ≀≀ in zth.; a few drops of rain at 0h. 16m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 84°5. At 2 P. M. the Temperature of Free Air 9.02 was the greatest during the month, being about 4.1 higher than the Normal Mean.
7	N	Densely clouded with ≀≀≀, moving E.	
7	N	≀≀≀ and ≀ scattered throughout, the former moving E.	
6	N	Densely clouded with ≀≀≀, moving E.	
8	N	Overcast with ≀≀≀ and ≀≀≀, both moving E.	
4	L	≀≀≀ scattered around hor.; ≀≀ in E and W of zth.	
6	L	≀≀≀ and ≀≀ scattered about, both moving E.	
7	L	" " " " "	
5	L	" " " " "	
3	C	≀≀ in E and W above hor.; ≀ scattered about.	
7	C	≀≀≀ along E hor.; ≀≀ scattered about.	
8	C	" " " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
July 11th-Noon.	29.695	28.798	89°8	80°1	9°7	76°5	0.66	89°6	84°7	W	0.1					
1 p. m.	.674	.738	89.8	81.0	8.8	77.9	.69	89.4	84.7	„	0.1					
2 „	.656	.724	90.2	81.0	9.2	77.9	.68	90.0	84.9	„	0.1					
3 „	.640	.725	89.4	80.4	9.0	77.2	.68	89.2	85.1	„	0.1					
4 „	.630	.717	88.0	80.0	8.0	77.1	.71	87.8	85.0	„	0.1					
5 „	.632	.750	87.0	79.0	8.0	76.0	.71	87.0	85.0	„	0.1					
6 „	.638	.734	85.0	79.0	6.0	76.8	.77	85.5	84.8	W b S	0.2					
7 „	.654	.779	83.4	77.9	5.5	75.8	.79	84.1	84.6	„	0.1					
8 „	.672	.777	83.1	78.3	4.8	76.5	.81	83.7	84.5	W	0.2					
9 „	.677	.789	82.6	78.0	4.6	76.2	.82	83.4	84.3	W b S	0.1					
10 „	.688	.797	82.4	78.0	4.4	76.3	.83	83.4	84.2	„	0.1					
11 „	.683	.788	82.0	78.0	4.0	76.5	.84	83.1	84.1	„	0.1					
July 13th-Midnight	.687	.806	81.8	77.6	4.2	76.0	.83	82.8	83.9	W	0.2					
1 a. m.	.666	.773	81.8	77.9	3.9	76.4	.85	82.6	83.8	W b N	0.2					
2 „	.648	.755	81.1	77.7	3.4	76.4	.86	82.0	83.6	„	0.3					
3 „	.639	.726	81.5	78.3	3.2	77.1	.87	82.2	83.5	WNW	0.8					
4 „	.639	.731	81.6	78.2	3.4	76.9	.86	82.4	83.5	„	0.6					
5 „	.645	.743	81.4	78.0	3.4	76.7	.86	82.2	83.6	„	0.3					
6 „	.664	.759	81.8	78.2	3.6	76.8	.85	82.7	83.5	„	0.3					
7 „	.682	.743	82.6	79.2	3.4	78.0	.86	83.8	83.5	„	0.3					
8 „	.697	.776	84.2	77.2	5.0	77.4	.81	84.8	83.8	„	0.4					
9 „	.704	.758	85.0	80.0	5.0	78.2	.81	86.1	83.9	„	0.3					
10 „	.702	.748	87.8	80.9	6.9	78.5	.75	88.2	84.3	„	0.2					
11 „	.697	.779	87.9	80.1	7.8	77.3	.72	88.3	84.5	„	0.4					
Noon.	.685	.778	89.3	80.2	9.1	76.9	.68	90.0	84.7	NW b W	0.2					
1 p. m.	.676	.778	89.4	80.0	9.4	76.6	.67	88.8	84.3	W	0.3					
2 „	.666	.778	88.8	79.6	9.2	76.2	.67	88.6	84.8	„	0.2					
3 „	.658	.783	87.6	79.0	8.6	75.8	.69	88.0	84.8	„	0.2					
4 „	.648	.727	88.0	80.2	7.8	77.4	.72	88.0	84.9	WSW	0.3					
5 „	.648	.757	86.2	79.0	7.2	76.3	.73	86.0	84.9	W b S	0.2					
6 „	.650	.777	84.6	78.4	6.2	76.0	.76	84.7	84.7	WSW	0.3					
7 „	.662	.776	83.6	78.2	5.4	76.1	.79	83.8	84.6	„	0.1					
8 „	.677	.787	83.2	78.2	5.0	76.3	.80	83.6	84.5	„	0.4					
9 „	.690	.801	82.5	78.0	4.5	76.3	.82	83.0	84.3	„	0.2					
10 „	.694	.799	82.4	78.1	4.3	76.5	.83	83.0	84.2	„	0.3					
11 „	.689	.807	81.7	77.6	4.1	76.0	.83	82.2	84.1	„	0.8					
July 14th-Midnight	.683	.838	80.8	76.4	4.4	74.7	.82	81.6	83.9	WSW	0 to 1½					
1 a. m.	.657	.748	82.2	78.4	3.8	76.9	.85	82.6	83.8	„	0 to 1½					
2 „	.644	.747	81.8	78.0	3.8	76.5	.85	82.2	83.8	„	0 to 1					
3 „	.635	.729	81.0	78.0	3.0	76.8	.88	81.8	83.6	SW b W	0.4					
4 „	.627	.753	81.0	77.2	3.8	75.7	.85	81.6	83.6	„	0.3					
5 „	.630	.745	80.8	77.4	3.4	76.1	.86	81.5	83.6	„	0 to 1½					
6 „	.651	.783	81.6	77.2	4.4	75.5	.82	82.0	83.5	„	½ to 1					
7 „	.660	.772	82.6	78.0	4.6	76.2	.82	83.0	83.5	W b S	½ to 1					
8 „	.672	.814	83.2	77.4	5.8	75.1	.77	83.6	83.6	„	0.4					
9 „	.687	.753	85.0	79.7	5.3	77.8	.80	85.5	83.8	„	0 to ½					
10 „	.684	.742	85.4	80.0	5.4	78.1	.79	85.8	83.9	„	0 to ½					
11 „	.675	.802	83.6	77.9	5.7	75.7	.78	83.5	84.0	W	0 to ½					
Noon.	.674	.741	86.2	80.0	6.2	77.8	.77	86.2	84.1	W b S	0 to ½					
1 p. m.	.665	.736	87.4	80.2	7.2	77.6	.74	87.6	84.3	„	0 to 2½					
2 „	.650	.785	85.5	78.2	7.3	75.4	.73	86.0	84.3	WSW	0 to 1⅛					
3 „	.636	.758	87.4	79.0	8.4	75.9	.69	87.4	84.5	„	0 to 1½					
4 „	.637	.749	85.0	78.6	6.4	76.2	.76	85.0	84.5	„	0 to 2½					
5 „	.634	.756	83.9	78.1	5.8	75.9	.78	84.2	84.3	„	0 to 3					
6 „	.640	.730	83.0	78.6	4.4	77.0	.83	83.5	84.1	„	0 to 1					
7 „	.649	.737	82.8	78.6	4.2	77.1	.83	83.4	84.0	„	0 to 2½					
8 „	.655	.767	82.6	78.0	4.6	76.2	.82	83.2	84.0	„	0 to 1					
9 „	.669	.793	82.2	77.6	4.6	75.8	.82	82.9	83.9	„	0.6					
10 „	.671	.781	82.1	77.9	4.2	76.3	.83	82.7	83.8	„	0.4					
11 „	.667	.772	81.6	77.9	3.7	76.5	.85	82.2	83.7	SW b W	0 to 1					

Immeasurable. None. None. None. None.
Immeasurable. None. None. None. None.
Immeasurable. None. None. None. None.

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩⌣ cumulo-strati; and ≀∩ nimbi.	
7	C	≀∩ along E hor.; ≀≀ scattered about.	
6	N	≀∩ and ≀ scattered about, the former moving E.	
6	N	" " " " "	
7	N	≀≀ and ≀∩ scattered throughout, both moving E.	
7	N	" " " " "	
6	C	≀ and ≀≀ about zth.; ≀∩ scattered here and there, moving E.	
5	C	≀ and ≀≀ about zth.; ≀∩ scattered here and there, moving ENE.	
5	C	≀ about zth.; ≀∩ scattered here and there, moving ENE; a few drops of rain	
4	C	≀∩ scattered about, moving E. [at 7h. 28m.	
4	C		
3	C	" " "	
5	C	≀∩ scattered about hor., moving E.	
		≀∩ scattered about, moving E.	
3	C	≀∩ around hor.; and ≀≀ scattered about. [vation.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°5.
7	N	≀∩ scattered throughout, moving E; a few drops of rain at the time of obser-	
7	N	≀∩ and ≀≀ scattered throughout, both moving E.	
8	N	" " " " "	
8	N	" " " " "	
5	L	≀∩ around hor., moving ENE; ≀≀ in SE hem.	
8	L	Overcast with ≀∩ and ≀≀, both moving ENE.	
8	L	" " " " "	
8	L	Densely clouded with ≀∩, moving E.	
7	C	≀∩ around hor. and in zth., moving ENE; ≀≀ scattered about.	
8	C	≀∩ around hor.; ≀≀ scattered throughout.	
7	C	" " " "	
8	C	≀∩ in NE and E, otherwise clouded with ≀≀.	
8	N	≀∩ and ≀ scattered throughout, the former moving E.	
8	N	" " " " "	
7	N	≀∩ and ≀≀ scattered throughout, both moving E.	
7	N	" " " " "	
6	L	≀∩ around hor.; ≀≀ and ≀ scattered throughout.	
7	L	Densely clouded with ≀∩ and ≀; a few patches of ≀≀ in W of zth.	
8	L	Overcast with ≀∩, moving E.	
8	L	Densely clouded with ≀∩, moving E; a few drops of rain at 8h. 47m.	
8	C	Overcast with ≀≀, moving E.	
5	C	≀∩ scattered about, moving E.	
7	C	≀∩ scattered about, moving ENE.	
8	C	Overcast in two strata with ≀∩, moving ENE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°5. On the 14th the morning maximum of Barometer was a little earlier and evening minimum was a little later.
8	N	Clouded as before; gusts of wind from W.	
8	N	≀≀ and ≀∩ scattered throughout, both moving E; gusts of wind from W.	
7	N	" " " " " " "	
8	N	Overcast with ≀∩ and ≀≀, both moving ENE.	
8	L	Overcast with ≀∩ and ≀≀, the former moving NE.	
8	L	" " " " "	
8	L	≀∩ and ≀ scattered throughout, the former moving ENE.	
8	L	Overcast with ≀∩ and ≀≀, both moving ENE.	
8	C	Densely clouded with ≀≀ and ≀∩, both moving ENE; a few ≀ in NW.	
8	C	Overcast; drizzling rain at 10h. 49m. which lasted 8m.	
8	C	Overcast with ≀∩, moving ENE.	
8	C	Overcast with ≀∩ and ≀≀, the former moving E.	
6	N	≀ and ≀∩ scattered throughout, both moving E.	
8	N	" " " " "	
8	N	" " " " "	
8	N	Overcast with ≀∩, moving E.	
8	L	" " "	
8	L	" " "	
7	L	Densely clouded with ≀∩, moving E.	
5	L	≀∩ scattered about, moving E.	
8	C	Overcast with ≀∩, moving E; a few stars dimly visible here and there.	
6	C	≀∩ scattered throughout, moving E.	
8	C	" " " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
July 15th-Midnight	29.651	28.756	82°0	78°0	4°0	76°5	0.84	82°4	83°7	WSW	0.4					
1 a. m.	.632	.727	81.8	78.2	3.6	76.8	.86	82.4	83.5	„	0 to 1					
2 „	.619	.705	81.0	78.2	2.8	77.1	.89	82.0	83.5	„	0 to ½					
3 „	.614	.698	80.1	78.0	2.1	77.2	.91	80.8	83.3	„	0 to 1⅛	0.03				
4 „	.617	.707	80.6	78.0	2.6	77.0	.89	81.2	83.2	„	0 to ½					
5 „	.626	.758	80.8	77.0	3.8	75.5	.85	81.5	83.2	„	0 to ½					
6 „	.635	.753	81.0	77.4	3.6	76.0	.85	81.5	83.1	„	0.5					
7 „	.655	.772	81.6	77.6	4.0	76.0	.84	81.8	83.3	„	0.6					
8 „	.673	.768	82.6	78.4	4.2	76.8	.83	83.5	83.3	„	0 to ⅝					
9 „	.681	.750	84.9	79.6	5.3	77.7	.80	85.2	83.5	„	0 to 1					
10 „	.677	.809	84.8	78.1	6.7	75.5	.75	84.8	83.6	W b S	0 to 1					
11 „	.672	.757	86.7	79.7	7.0	77.2	.74	87.1	83.9	„	0 to ⅝					
Noon.	.662	.730	86.3	80.0	6.3	77.7	.76	86.9	84.0	WSW	½ to 2		None.	None.	None.	None.
1 p. m.	.654	.719	86.7	80.2	6.5	77.8	.76	87.4	84.0	W b S	0 to ⅝					
2 „	.646	.712	88.4	80.6	7.8	77.8	.72	88.4	84.4	„	0.3					
3 „	.632	.700	87.0	80.2	6.8	77.7	.75	87.0	84.5	WSW	0.2					
4 „	.628	.697	86.4	80.0	6.4	77.7	.76	86.2	84.5	„	0.7					
5 „	.633	.726	84.7	79.0	5.7	76.9	.78	85.0	84.4	„	0.3					
6 „	.642	.733	83.8	78.8	5.0	76.8	.81	84.6	84.3	„	0.3					
7 „	.646	.737	81.8	78.3	3.5	76.8	.86	82.9	84.0	SW b W	0.5	0.03				
8 „	.650	.751	81.6	78.0	3.6	76.6	.86	82.7	83.9	SW	0.4					
9 „	.664	.765	81.6	78.0	3.6	76.6	.86	82.8	83.7	„	0.3					
10 „	.667	.782	81.4	77.6	3.8	76.1	.85	82.3	83.7	„	0.2					
11 „	.659	.757	81.4	78.0	3.4	76.7	.88	82.2	83.6	„	0.3					
July 16th-Midnight	.652	.748	81.2	78.0	3.2	76.8	.87	82.1	83.5	SW	0.2					
1 a. m.	.627	.723	81.2	78.0	3.2	76.8	.87	82.0	83.4	„	0 to 2½					
2 „	.620	.716	81.2	78.0	3.2	76.8	.87	82.1	83.3	„	0.6					
3 „	.616	.709	80.9	78.0	2.9	76.9	.88	82.0	83.3	„	0.4					
4 „	.622	.731	80.9	77.6	3.3	76.3	.87	82.0	83.2	„	0.6					
5 „	.628	.762	81.0	77.0	4.0	75.4	.84	81.7	83.2	„	0.8					
6 „	.645	.757	81.1	77.6	3.5	76.2	.86	82.0	83.2	„	0.6					
7 „	.660	.749	82.0	78.4	3.6	77.0	.86	83.0	83.2	„	0.7					
8 „	.676	.777	83.1	78.4	4.7	76.6	.82	84.2	83.3	SW b W	0.4					
9 „	.675	.747	82.8	79.0	3.8	77.6	.85	83.8	83.4	„	0.4					
10 „	.677	.731	85.4	80.1	5.3	78.2	.80	86.2	83.6	WSW	0.2	Immeasurable.				
11 „	.668	.733	86.0	80.0	6.0	77.8	.77	86.6	83.8	„	0 to 1					
Noon.	.660	.692	88.5	81.4	7.1	78.9	.74	88.7	84.2	„	0 to 1		None.	None.	None.	None.
1 p. m.	.650	.709	86.2	80.2	6.0	78.0	.77	86.8	84.2	„	0.3					
2 „	.630	.676	86.6	80.6	6.0	78.5	.78	87.0	84.2	„	0.2					
3 „	.622	.702	87.4	80.0	7.4	77.3	.73	87.2	84.2	„	0.2					
4 „	.619	.679	84.8	79.8	5.0	78.0	.81	85.0	84.2	„	0.1					
5 „	.619	.670	85.0	80.2	5.3	78.5	.80	85.4	84.3	SW b W	0.2					
6 „	.626	.694	83.6	79.3	4.3	77.7	.83	84.2	84.2	„	0.3					
7 „	.640	.723	82.7	78.7	4.0	77.2	.84	83.5	84.0	„	0.4					
8 „	.649	.750	82.4	78.2	4.2	76.6	.83	83.2	83.9	„	0.3					
9 „	.653	.756	81.4	78.0	3.4	76.7	.86	82.2	83.8	SW	0.4					
10 „	.666	.764	81.4	78.0	3.4	76.7	.86	82.2	83.8	„	0.2					
11 „	.652	.730	81.5	78.5	3.0	77.4	.88	82.3	83.6	„	0.1					
July 17th-Midnight	.639	.737	81.4	78.0	3.4	76.7	.86	82.3	83.5	SW	0.2					
1 a. m.	.614	.702	81.2	78.2	3.0	77.1	.88	82.0	83.5	„	0.3					
2 „	.604	.691	80.4	78.0	2.4	77.1	.90	81.0	83.3	„	0.3	0.02				
3 „	.594	.684	80.6	78.0	2.6	77.0	.89	81.2	83.2	„	0.2					
4 „	.604	.694	80.6	78.0	2.6	77.0	.89	81.2	83.1	„	0.2					
5 „	.611	.736	80.2	77.0	3.2	75.8	.87	80.9	83.0	SW b W	0.2					
6 „	.627	.731	79.0	77.2	1.8	76.5	.92	80.2	83.0	„	0.1		None.	None.	None.	None.
7 „	.647	.729	81.4	78.4	3.0	77.3	.88	82.4	83.0	„	0.3					
8 „	.669	.766	82.8	78.4	4.4	76.7	.83	83.6	83.2	WSW	0.4					
9 „	.682	.756	83.0	79.0	4.0	77.5	.84	83.6	83.3	SW b W	0.2					
10 „	.681	.741	84.5	80.0	4.5	78.0	.82	85.4	83.4	WSW	0.2					
11 „	.672	.711	85.6	80.5	5.1	78.7	.80	86.2	83.6	„	0.2					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∿ cirri; ∿ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩ cumulo-strati; and ∿ nimbi.	
5	C	∿ scattered about, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°5. Daily fall of rain by Osler's Gauge 0.07.
8	N	Overcast with ∿, moving E; light rain and wind at the time of observation.	
8	N	Overcast; a shower of rain at 2h. 38m. which lasted 5m.	
7	N	∿ scattered throughout, moving E.	
8	N	∿ scattered throughout; hazy; a lunar-halo.	
7	L	∿ scattered throughout, except about zth.	
8	L	∿ around hor.; ∿ scattered throughout.	
8	L	∿ scattered throughout, moving E; a passing shower of rain at full hour.	
7	L	∿ and ∿ scattered about hor.; ∿ in zth.	
7	C	∿ scattered about, moving E; a few ∿ about zth.	
8	C	Overcast with ∿, moving E.	
7	C	Densely clouded with ∿, moving E.	
7	C	∿ around hor.; ∿ scattered about zth.	
8	N	∿ scattered about, moving E.	
7	N	∿ and ∿ scattered throughout, both moving E.	
8	N	Overcast with ∿, moving E.	
8	N	" " "	
8	L	" " "	
8	L	Overcast; a shower of rain at 6h. 27m. which lasted 3m.	
8	L	Overcast; a few drops of rain at 7h. 57m.	
8	L	Overcast with ∿, moving E.	
8	C	" " "	
3	C	∿ scattered about, moving E; a few drops of rain at 10h. 16m.	
3	C	∿ scattered about, moving E.	
3	C	∿ scattered around hor., a few masses about zth., moving ENE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°5.
3	N	∿ around hor.; hazy.	
8	N	Overcast with ∿, moving E; a few drops of rain at 2h.	
8	N	Overcast.	
8	N	"	
8	L	"	
8	L	Overcast with ∿, moving ENE.	
8	L	∿ and ∿ scattered throughout, the former moving ENE.	
8	L	Clouded as before; drizzling rain at 8h. 45m.	
7	C	∿ scattered throughout; hazy.	
7	C	∿ scattered throughout, moving ENE.	
7	C	" " " "	
6	C	∿ scattered throughout, moving E.	
8	N	" " " "	
8	N	" " " ".	
8	N	" " " "	
8	N	" " " "	
8	L	Overcast with ∿ and ∿, the former moving E.	
8	L	" " " " "	
8	L	Overcast with ∿ and ∿, the former moving ENE.	
7	L	Densely clouded with ∿, moving ENE; drizzling rain at 8h. 40m.	
4	C	∿ scattered around hor. and S of zth., moving ENE.	
6	C	∿ scattered throughout.	
6	C	" " "	
8	C	Densely clouded with ∿, moving ENE; a few stars dimly visible about zth.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°5. Daily fall of rain by Osler's Gauge 0.03. On the 17th at 4 P. M. the Barometer rose a little instead of falling.
8	N	Overcast with ∿, moving E; light rain at 1h. 37m. which lasted 7m.	
8	N	Overcast.	
8	N	"	
8	N	"	
8	L	Overcast; a passing shower of rain at 5h. 46m.	
8	L	Overcast with ∿, moving E.	
8	L	Overcast with ∿, moving ENE.	
8	L	Densely clouded with ∿, moving ENE; breaks in SW and W.	
8	C	Densely clouded with ∿, moving E.	
8	C	" " " "	
8	C	" " " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
July 17th—Noon.	29.661	28.659	87°4	81°9	5°5	80°0	0.80	87°4	83°9	WSW	0 to 1¼					
1 p. m.	.648	.688	87.6	81.0	6.6	78.7	.76	87.6	84.1	„	0.2					
2 „	.643	.676	87.0	81.0	6.0	78.9	.78	87.0	84.1	„	0.1					
3 „	.628	.670	87.8	81.0	6.8	78.6	.75	88.0	84.3	„	0.1					
4 „	.629	.649	88.2	81.6	6.6	79.3	.76	88.2	84.3	„	0.1					
5 „	.627	.675	85.7	80.3	5.4	78.4	.79	85.8	84.4	„	0 to 1					
6 „	.636	.702	83.4	79.3	4.1	77.8	.84	83.8	84.2	„	0 to 2	None.	None.	None.	None.	None.
7 „	.655	.727	82.8	79.0	3.8	77.6	.85	83.4	84.1	„	0.2					
8 „	.663	.740	82.8	79.0	3.8	77.6	.85	83.2	84.0	„	0.2					
9 „	.677	.740	82.0	79.0	3.0	77.9	.88	83.0	83.8	„	0.1					
10 „	.679	.754	82.0	78.7	3.3	77.5	.87	82.8	83.7	„	0.3					
11 „	.674	.735	81.8	79.0	2.8	78.0	.89	82.6	83.7	„	0.2					
July 18th—Midnight	.658	.744	81.8	78.4	3.4	77.1	.86	82.6	83.6	WSW	0.2					
1 a. m.	.634	.718	81.6	78.4	3.2	77.2	.87	82.4	83.5	„	0.2					
2 „	.621	.709	81.2	78.2	3.0	77.1	.88	82.0	83.5	„	0.1					
3 „	.609	.697	81.2	78.2	3.0	77.1	.88	82.0	83.4	„	0.2					
4 „	.615	.709	81.0	78.0	3.0	76.8	.88	81.8	83.2	„	0.2					
5 „	.623	.709	81.0	78.2	2.8	77.1	.89	81.6	83.1	„	0.3					
6 „	.633	.713	81.2	78.4	2.8	77.3	.89	82.0	83.2	„	0.3					
7 „	.651	.718	82.4	79.0	3.4	77.8	.86	83.0	83.3	„	0.3					
8 „	.669	.741	83.6	79.2	4.4	77.6	.83	84.0	83.4	„	0.4					
9 „	.681	.724	84.0	80.0	4.0	78.6	.84	84.3	83.5	„	0.2					
10 „	.687	.754	84.3	79.5	4.8	77.8	.81	84.6	83.5	„	0.2					
11 „	.684	.695	85.4	81.0	4.4	79.6	.84	86.2	83.8	„	0.2					
Noon.	.679	.714	85.6	80.6	5.0	78.8	.81	86.2	83.9	„	0.1	None.	None.	None.	None.	None.
1 p. m.	.672	.694	88.4	81.6	6.8	79.3	.75	88.2	84.0	SW b W	0.1					
2 „	.653	.729	87.0	80.0	7.0	77.5	.74	86.8	84.2	WSW	0.1					
3 „	.637	.720	87.6	80.0	7.6	77.2	.72	87.2	84.4	SW b W	0.1					
4 „	.627	.675	86.0	80.4	5.6	78.4	.79	86.2	84.3	„	0.1					
5 „	.624	.746	82.8	77.0	5.8	75.9	.78	83.1	84.0	WSW	0.1					
6 „	.635	.698	83.0	79.4	3.6	78.1	.86	83.4	84.0	„	0.0					
7 „	.650	.732	82.6	78.7	3.9	77.3	.85	83.0	83.9	„	0.2					
8 „	.677	.744	82.4	79.0	3.4	77.8	.86	83.0	83.8	„	0.1					
9 „	.680	.745	82.2	79.0	3.2	77.8	.87	82.8	83.8	„	0.1					
10 „	.692	.767	82.0	78.7	3.3	77.5	.87	82.3	83.7	„	0.1					
11 „	.680	.755	81.8	78.8	3.0	77.7	.88	82.2	83.6	„	0.1					
July 20th—Midnight	.712	.799	80.4	78.0	2.4	77.1	.90	81.1	83.2	WSW	0.1					
1 a. m.	.693	.779	79.9	77.9	2.0	77.1	.92	80.7	83.0	„	0.1					
2 „	.675	.758	80.0	78.0	2.0	77.2	.92	80.6	83.0	SW b W	0.1	0.00				
3 „	.664	.744	79.7	78.0	1.7	77.3	.93	80.4	82.9	„	0.1	0.01				
4 „	.678	.761	80.0	78.0	2.0	77.2	.92	80.4	82.8	„	0.1					
5 „	.674	.757	80.0	78.0	2.0	77.2	.92	80.7	82.8	„	0.1					
6 „	.698	.781	80.0	78.0	2.0	77.2	.92	80.9	82.8	WSW	0.1					
7 „	.716	.787	81.2	78.6	2.6	77.6	.89	82.5	82.9	„	0.1					
8 „	.732	.780	83.0	79.6	3.4	78.4	.87	83.5	83.0	W	0.2					
9 „	.749	.843	84.1	78.8	5.3	76.8	.80	83.1	83.3	W b S	0.2					
10 „	.749	.807	85.4	80.0	5.4	78.1	.79	85.2	83.5	W b N	0.2					
11 „	.745	.751	86.6	81.5	5.1	79.8	.81	86.3	83.7	WNW	0.2					
Noon.	.734	.854	83.4	78.0	5.4	75.9	.79	84.4	83.6	NW	0 to 3½					
1 p. m.	.709	.810	82.4	78.2	4.2	76.6	.83	83.6	83.0	NW b W	0.1	None.	None.	None.	None.	None.
2 „	.698	.761	86.6	80.2	6.4	77.9	.76	86.0	83.5	„	0.1					
3 „	.691	.741	86.2	80.4	5.8	78.3	.78	85.4	83.7	„	0.0					
4 „	.682	.717	85.6	80.6	5.0	78.8	.81	85.6	83.7	„	0.1					
5 „	.683	.752	85.2	79.7	5.5	77.7	.79	85.0	84.0	WNW	0.1					
6 „	.697	.775	83.1	79.0	4.1	77.4	.83	83.6	83.8	W	0.1					
7 „	.720	.796	82.4	78.8	3.6	77.5	.86	82.9	83.6	W b S	0.1					
8 „	.734	.797	82.0	79.0	3.0	77.9	.88	82.6	83.5	„	0.1					
9 „	.746	.827	81.8	78.5	3.3	77.3	.87	82.2	83.5	„	0.2					
10 „	.751	.849	81.4	78.0	3.4	76.7	.86	81.9	83.4	„	0.1					
11 „	.745	.833	81.2	78.2	3.0	77.1	.88	81.8	83.3	„	0.2					

Amount of Clouds 0—8.	Observers.	State of the Weather. Note.—In recording these Observations, the Symbols used to denote the clouds are: cirri; cirro-cumuli; cumuli; cirro-strati; cumulo-strati; and nimbi.	Remarks.
7	C	Densely clouded with , moving E.	
8	N	" " " "	
8	N	" " " "	
8	N	" " " "	
8	N	" " " "	
8	L	" " " "	
8	L	" " " "	
7	L	scattered throughout, moving ENE; breaks in E and S.	
3	L	scattered around hor. and in NW and N, moving E.	
7	C	scattered throughout, moving E.	
7	C	" " " "	
7	C	" " " "	
8	C	Overcast with , moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°5. On the 18th the evening minimum of Barometer was a little later. 19th lightning was observed in E hor.
8	N	" " "	
3	N	around hor.; hazy.	
4	N	" " "	
6	N	scattered about, moving NE.	
7	L	scattered throughout, moving E.	
7	L	and scattered throughout, the former moving E.	
8	L	" " " " "	
8	L	Overcast with , moving NE.	
8	C	" " "	
8	C	" " "	
8	C	Overcast with , moving ENE.	
8	C	" " " "	
5	N	scattered about, moving E.	
8	N	and scattered throughout, both moving E.	
8	N	" " " " " [lasted 3m.	
8	N	Overcast with and , the former moving E; light rain at 4h. 8m. which	
8	C	Overcast.	
8	C		
8	C	"	
8	C	"	
7	C	Densely clouded; a few stars visible about zth.; sheet lightning in hor.	
6	C	scattered throughout; sheet lightning in hor.	
4	C	scattered about, moving E.	
6	C	" " "	
8	C	Overcast with , moving ENE; a few stars visible S of zth.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°5. Daily fall of rain by Osler's Gauge 0.02. On the 20th at 4 A. M. the Barometer rose a little instead of falling; and at 10 P. M. the Reading of Barometer 29.751, was greatest during the month, being about 0.063 higher than the Normal Mean.
8	N	Overcast with , whose motion was not apparent.	
8	N	Overcast; light rain at 2h. 22m. which lasted 3m.	
8	N	Overcast; a few stars dimly visible.	
8	N	" " " "	
8	L	Overcast with , moving ENE.	
7	L	Overcast with , , and ; were moving ENE.	
8	L	Overcast with ; a few in S.	
7	L	around hor., otherwise clouded with and .	
8	C	scattered throughout, moving ENE; E of zth.	
6	C	around hor.; and scattered about.	
8	C	Overcast with and , the former moving ENE.	
8	C	Overcast with , moving E; light drizzling rain at 0h. 16m.	
8	N	Overcast.	
8	N	"	
8	N	"	
8	N	"	
8	L	Densely clouded with and , the former moving E.	
8	L	" " " " "	
8	L	" " " " "	
5	L	scattered about, moving E.	
5	C	" " "	
4	C	scattered around hor. and in S, moving E.	
4	C	scattered here and there, moving E.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 Inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
July 21st-Midnight	29.728	28.840	80°9	77°5	3°4	76°2	0.86	81°4	83°2	S b S	0.2					
1 a. m.	.707	.799	80.8	78.0	2.8	76.9	.89	81.0	83.1	W NW	0.1					
2 „	.695	.784	80.5	78.0	2.5	77.0	.90	80.8	83.0	„	0.1					
3 „	.686	.790	80.4	77.6	2.8	76.5	.88	80.8	83.0	„	0.1					
4 „	.678	.795	80.2	77.2	3.0	76.0	.88	80.4	82.8	„	0.1					
5 „	.682	.799	80.2	77.2	3.0	76.0	.88	80.5	82.7	„	0.1					
6 „	.703	.805	80.2	77.6	2.6	76.6	.89	81.0	82.8	„	0.1					
7 „	.711	.856	79.2	76.2	3.0	75.0	.88	79.7	82.6	W	0.1	0.12				
8 „	.727	.767	82.2	79.6	2.6	78.7	.89	83.0	82.8	SW b W	0.2	0.01				
9 „	.731	.748	83.2	80.4	2.8	79.4	.88	84.0	82.9	WSW	0.1	0.01				
10 „	.739	.759	85.8	81.0	4.8	79.3	.82	85.1	83.3	SW b W	0.1.					
11 „	.733	.775	86.6	80.7	5.9	78.6	.78	85.7	83.5	„	0.1					
Noon.	.716	.726	85.7	81.2	4.5	79.6	.83	85.1	83.5	„	0.1	0.01	None.	None.	None.	None.
1 p. m.	.688	.769	83.6	79.0	4.6	77.3	.82	84.0	83.5	WSW	0.1					
2 „	.680	.709	86.6	81.0	5.6	79.0	.79	86.0	83.7	W b S	0.2					
3 „	.669	.702	87.0	81.0	6.0	78.9	.78	86.4	83.9	„	0.1					
4 „	.658	.706	86.0	80.4	5.6	78.4	.79	85.8	84.0	„	0.1					
5 „	.657	.723	84.6	79.6	5.0	77.8	.81	82.7	83.1	„	0.1					
6 „	.667	.754	83.4	78.8	4.6	77.1	.82	83.0	83.2	„	0.1					
7 „	.678	.777	82.2	78.2	4.0	76.7	.84	82.2	83.0	„	0.1					
8 „	.693	.798	82.0	78.0	4.0	76.5	.84	81.9	82.2	„	0.1					
9 „	.708	.794	81.4	78.3	3.1	77.1	.87	81.6	81.9	W b N	0.1					
10 „	.712	.791	81.6	78.5	3.1	77.4	.87	81.8	81.6	W b S	0.2					
11 „	.702	.802	81.5	78.0	3.5	76.6	.86	81.8	81.8	„	0.3					
July 22nd-Midnight	.688	.772	81.5	78.3	3.2	77.2	.87	81.8	82.5	W b S	0.2					
1 a. m.	.671	.727	81.4	79.0	2.4	78.1	.90	81.8	82.4	„	0.2					
2 „	.653	.701	80.6	79.0	1.6	78.4	.93	81.2	82.2	„	0.1	0.02				
3 „	.641	.699	80.8	78.8	2.0	78.1	.92	81.2	82.1	W	0.2					
4 „	.635	.716	80.6	78.2	2.4	77.3	.90	81.2	82.0	W b S	0.2					
5 „	.647	.739	80.8	78.0	2.8	76.9	.89	81.2	82.1	„	0.2					
6 „	.656	.714	80.8	78.8	2.0	78.1	.92	81.2	82.2	„	0.2					
7 „	.674	.735	81.1	78.8	2.3	78.0	.91	81.8	82.8	„	0.1					
8 „	.681	.750	81.8	78.8	3.0	77.7	.88	82.5	82.1	WSW	0 to 2¼					
9 „	.698	.765	79.3	78.2	1.1	77.8	.95	80.3	81.8	W b S	0 to 1½					
10 „	.693	.795	79.6	77.4	2.2	76.6	.91	80.8	81.7	„	0.4					
11 „	.689	.731	82.4	79.5	2.9	78.6	.88	82.6	82.2	WSW	0 to 2½					
Noon.	.634	.743	79.8	78.5	1.3	78.0	.95	81.0	81.8	W b S	0.3	0.01	None.	None.	None.	None.
1 p. m.	.668	.671	80.6	80.1	0.5	79.9	.98	82.2	81.7	SW b W	0.2	0.07				
2 „	.654	.599	83.0	82.0	1.0	81.6	.96	84.2	82.2	WSW	0.2					
3 „	.631	.657	84.8	80.6	4.2	79.1	.84	85.2	82.7	SW b W	0.2					
4 „	.622	.635	84.4	80.8	3.6	79.5	.86	85.0	82.7	WSW	0.1					
5 „	.622	.694	83.6	79.2	4.4	77.6	.83	83.8	82.8	„	0.2					
6 „	.629	.694	82.2	79.0	3.2	77.8	.87	82.8	82.6	SW b W	0.2					
7 „	.641	.729	81.2	78.2	3.0	77.1	.88	82.2	82.4	W b N	0.3					
8 „	.651	.720	80.2	78.4	1.8	77.7	.92	80.8	82.2	WSW	0.2	0.03				
9 „	.661	.702	80.0	79.0	1.0	78.6	.96	80.8	82.1	„	0.1	0.06				
10 „	.675	.744	80.2	78.4	1.8	77.7	.92	81.2	82.1	SW b W	0.4					
11 „	.673	.756	80.0	78.0	2.0	77.2	.92	80.7	82.0	„	0.2					
July 23rd-Midnight	.662	.728	80.4	78.5	1.9	77.8	.92	81.4	82.0	SW b W	0.1					
1 a. m.	.644	.715	80.4	78.4	2.0	77.6	.92	81.0	82.0	SW	1.5					
2 „	.619	.664	79.6	78.8	0.8	78.5	.97	80.8	81.8	SW b W	0.3	0.04				
3 „	.607	.680	79.8	78.2	1.6	77.6	.93	80.8	81.7	„	0.2					
4 „	.606	.679	79.8	78.2	1.6	77.8	.93	80.6	81.6	„	0.2					
5 „	.618	.685	80.0	78.4	1.6	77.8	.93	80.8	81.8	WSW	0.2					
6 „	.633	.708	80.0	78.2	1.8	77.5	.92	80.8	81.7	„	0.3		None.	None.	None.	None.
7 „	.648	.710	81.2	78.8	2.4	77.9	.90	82.6	81.8	„	0.2					
8 „	.661	.812	80.4	76.4	4.0	74.8	.84	80.4	81.9	W b S	0.2	0.04				
9 „	.663	.695	80.3	79.3	1.0	78.9	.96	81.6	81.8	WSW	0.1	0.09				
10 „	.673	.671	83.8	81.0	2.8	80.0	.89	84.6	82.2	„	0.4	0.01				
11 „	.674	.665	85.6	81.6	4.0	80.2	.85	85.8	82.7	„	0.3					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤≤ cirro-cumuli; ⌒ cumuli; ⌒≤ cirro-strati; ⌒≤ cumulo-strati; and ≤⌒ nimbi.	
2	C	≤≤ scattered around hor., otherwise clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°3. Daily fall of rain by Osler's Gauge 0.17.
4	N	≤≤ scattered about, moving E.	
4	N	" " "	
4	N	" " "	
4	N	" " "	
7	L	≤≤ around hor., otherwise clouded with ≤.	
8	L	Overcast with ≤≤, ≤≤, and ≤; light rain at 6h. 32m. which lasted 3m.	
8	L	Overcast with ≤≤, moving E; a passing shower of rain at 7h. 7m.	
7	L	≤≤ scattered about hor.; ≤≤ in E, SE, and SW; ≤ scattered throughout; driz-	
6	C	≤≤ around hor.; ≤≤ in N and NE; ≤ scatd. throughout. [zling rain at 8h.32m.	
6	C	≤≤ around hor. and in S, moving ENE; ≤ and ≤≤ scattered throughout.	
8	C	≤≤ scattered about; a few patches of ≤≤ in S; light rain at 11h. 23m. which	
6	C	≤≤ around hor., moving ENE; ≤≤ scattered throughout. [lasted 3m.	
8	N	Densely clouded with ≤≤ and ≤≤, the former moving E.	
8	N	" " " " "	
8	N	" " " " "	
8	N	" " " " "	
8	L	Overcast with ≤≤ and ≤, the former moving E.	
8	L	" " " " "	
8	L	≤≤ around hor., moving E; ≤ scattered throughout; sheet lightning in W.	
8	L	" " " " " "	
8	C	Overcast with ≤≤, moving E; a few stars dimly visible.	
8	C	" " " " "	
8	C	Overcast.	
6	C	Densely clouded with ≤≤, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°0. Daily fall of rain by Osler's Gauge 0.21. On the 22nd the morning maximum of Barometer was a little earlier; at 2 P. M. the Temperature of Deduced Dew-point was 81°6, the greatest in the month.
8	N	Overcast; light rain at 1h. 38m. which lasted 4m.	
8	N	Overcast.	
8	N	"	
8	N	"	
8	L	"	
8	L	"	
8	L	"	
8	L	Overcast; drops of rain falling.	
8	C	" " "	
8	C	" " "	
8	C	Overcast with ≤≤, moving NE; light rain for about half an hour.	
8	C	Overcast; a few ≤ in E; a passing shower of rain at 0h. 30m.	
8	N	Overcast; drizzling rain at 1h. 17m. which lasted for 10m.	
8	N	Overcast with ≤≤ and dense ≤, both moving ENE.	
8	N	Overcast with ≤≤ and ≤≤, both moving NE.	
8	N	" " " "	
8	L	Overcast with ≤≤, moving ENE; a few drops of rain at 5h. 9m.	
8	L	Overcast.	
8	L	Overcast; light rain at 7h. 57m. which lasted 4m.	
8	L	Overcast; light rain at 8h. 45m. which lasted 8m.	
8	C	Overcast; a few stars visible about zth.	
6	C	≤≤ scattered throughout, whose motion was not apparent.	
6	C	Clouded as before.	
8	C	Overcast.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°0. Daily fall of rain by Osler's Gauge 0.19. On the 23rd the morning and evening maximum of Barometer were a little later.
8	N	Densely clouded; rain, accompanied with wind, at 1h. 5m. which lasted 14m.	
8	N	Overcast; a few stars dimly visible.	
8	N	Densely clouded; a few stars visible about zth.	
6	N	≤≤ scattered throughout, moving ENE.	
8	L	≤≤ scattered throughout, moving ENE; ≤ and ≤≤ about zth.	
7	L	≤≤ around hor.; ≤ scattered throughout. [56m.	
7	L	≤≤ and ≤ scattered throughout; light showers of rain at 7h. 8m., and at 7h.	
8	L	Overcast with ≤≤, moving E; passing showers of rain.	
8	C	≤≤ scattered about; a few ≤≤ in zth.; light shower of rain at 9h. 19m.	
6	C	≤≤ and ≤≤ scattered throughout, both moving ENE.	
5	C	≤≤ scattered about, moving ENE; a few patches of ≤≤ in W.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
July 23rd–Noon.	29.661	28.655	86°2	81°7	4°5.	80°1	0.83	86°2	83°0	WSW	0.2					
1 p. m.	.649	.652	87.3	81.8	5.5	80.1	.79	87.1	83.2	SW b W	0.3					
2 „	.641	.647	87.0	81.6	5.4	79.9	.79	87.0	83.3	SW	0.2					
3 „	.618	.659	85.8	80.5	5.3	79.8	.80	85.8	83.4	„	0.2					
4 „	.603	.644	86.5	80.7	5.8	78.6	.78	86.2	83.4	SW b W	0.2					
5 „	.607	.657	84.6	80.0	4.6	78.3	.82	85.0	83.4	WSW	0.2	None.	None.	None.	None.	None.
6 „	.609	.681	83.6	79.2	4.4	77.6	.83	84.0	83.3	„	0.2					
7 „	.619	.738	81.8	77.6	4.2	76.0	.83	82.5	83.0	„	0.2					
8 „	.633	.731	81.4	78.0	3.4	76.7	.86	82.4	82.8	SW	0.2					
9 „	.656	.750	81.0	78.0	3.0	76.8	.88	82.2	82.7	WSW	0.1					
10 „	.666	.760	81.0	78.0	3.0	76.8	.88	81.9	82.6	„	0.1					
11 „	.669	.763	81.0	78.0	3.0	76.8	.88	81.9	82.5	„	0.0					
July 24th–Midnight	.655	.743	80.8	78.1	2.7	77.1	.89	81.8	82.5	SW b W	0.2					
1 a. m.	.634	.690	80.6	78.8	1.8	78.1	.93	81.4	82.3	„	0.2	0.02				
2 „	.628	.737	80.2	77.4	2.8	76·3	.88	80.6	82.2	„	0.1	0.01				
3 „	.623	.706	80.0	78.0	2.0	77.2	.92	80.8	82.2	„	0.1					
4 „	.624	.703	79.6	78.0	1.6	77.4	.93	80.6	82.0	WSW	0.1					
5 „	.628	.709	79.8	78.0	1.8	77.3	.93	80.9	82.0	W b S	0.1					
6 „	.648	.743	79.6	77.6	2.0	76.8	.92	80.8	82.0	„	0.1					
7 „	.662	.721	81.6	79.0	2.6	78.0	.89	84.2	82.1	WSW	0.0					
8 „	.675	.722	84.4	80.0	4.4	78.4	.83	84●	82.6	„	0.0					
9 „	.680	.721	85.4	80.4	5.0	78.6	.81	84.7	82.9	„	0.0					
10 „	.686	.708	86.0	81.0	5.0	79.3	.81	85.4	83.0	„	0·0					
11 „	.688	.718	87·1	81.1	6.0	79.0	.78	86.2	83.3	„	0.1					
Noon.	.674	.696	88.0	81.5	6.5	79.3	.76	86.6	83.6	„	0 to 1		None.	None.	None.	None.
1 p. m.	.668	.677	88.8	82.0	6.8	79.3	.75	88.0	83.8	W b S	0 to 1					
2 „	.658	.649	89.6	82.6	7.0	80.2	.75	88.4	84.0	„	0.1					
3 „	.640	.637	88.6	82.2	6.4	80.1	.77	88.2	84.2	„	0.1				●	
4 „	.629	.647	87.2	81.4	5.8	79.4	.78	87.0	84.2	W	0.1					
5 „	.637	.683	85.0	80.2	4.8	78.5	.81	85.0	83.9	W b N	0.1					
6 „	.652	.695	84.0	80.0	4.0	78.6	.84	84.2	83.7	„	0.1					
7 „	.666	.724	83.0	79.4	3.6	78.1	.86	83.5	83.5	W	0.1					
8 „	.683	.744	82.6	79.2	3.4	78.0	.86	83.2	83.5	W b S	0.0					
9 „	.699	.768	81.8	78.8	3.0	77.7	.88	82.2	83.3	WSW	0.0					
10 „	.714	.797	80.0	78.0	2.0	77.2	.92	80.7	82.9	S b W	0.0					
11 „	.709	.787	79.2	77.9	1.3	77·4	.95	80.2	82.7	„	0.1					
July 25th–Midnight	.692	.786	79.2	77.5	1.7	76.8	.93	80.0	82.5	S b W	0·0	0.01				
1 a. m.	.675	.785	78.8	77.6	1.8	76.3	.92	80.0	82.2	„	0.2					
2 „	.664	.761	78.4	77.2	1.2	76.7	.95	79.0	82.0	„	0.4					
3 „	.660	.759	77.8	77.0	0.8	76.7	.97	78.4	81.8	S b E	0.2	0.05				
4 „	.648	.747	77.8	77.0	0.8	76.7	.97	78.4	81.7	„	0.2	0.03				
5 „	.656	.755	77.8	77.0	0.8	76.7	.97	78.6	81.5	SSE	0.1	0.05				
6 „	.674	.768	77.4	77.0	0.4	76.8	.98	78.6	81.5	„	0.2	0.05				
7 „	.683	.745	78.8	78.2	0.6	77.9	.97	80.0	81.5	„	0.2					
8 „	.700	.786	78.8	77.6	1.2	77.1	.95	79.4	81.6	„	0.1	0.18				
9 „	.704	.792	78.8	77.5	1.3	77.1	·95	79.2	81.5	S b E	0·1	0·07				
10 „	.711	.797	78.8	77.6	1.2	77.1	.95	79.4	81.5	S b W	0.2	0.04				
11 „	.708	.785	80.3	78.2	2.1	77.4	.91	81.2	81.7	S	0.2					
Noon.	.708	.755	80.5	79.0	1.5	78.4	.94	81.6	81.7	S b W	0.1		None.	None.	None.	Note.
1 p. m.	.694	.692	82.2	80.6	1.6	80.0	.93	83.2	81.9	SW	0.1	0.18				
2 „	.678	.704	84.0	80.4	3.6	79.1	.86	84.2	82.4	SW b W	0.1					
3 „	.663	.724	82.6	79.2	3.4	78.0	.86	83.0	82.3	WSW	0.1					
4 „	.646	.736	82.8	78.8	4.0	77.0	.84	83.2	82.4	„	0.1					
5 „	.639	.704	82.2	79.0	3.2	77.8	.87	82.8	82.4	„	0.1					
6 „	.656	.790	81.0	77.0	4.0	75.4	.84	81.4	82.4	„	0.1					
7 „	.662	.741	80.4	78.2	2.2	77.4	.91	81.2	82.1	„	0.1	0.04				
8 „	.687	.738	80.2	78.8	1.4	78.3	.94	81.0	82.1	„	0.1					
9 „	.701	.800	80.0	77.6	2.4	76.7	.89	80.9	82.0	„	0.1					
10 „	.712	.822	79.9	77.6	2.3	76.7	.90	80.8	81.9	„	0.2					
11 „	.706	.806	79.6	77.8	1.8	77.1	.93	80.8	81.8	W b S	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩≀ cumulo-strati; and ≀≀ nimbi.	
5	C	≀≀ scattered about; ≀≀ in W and NE.	
6	N	≀≀ scattered throughout, moving NE.	
8	N	≀≀ and ≀≀ scattered throughout, moving NE.	
6	N	" " " "	
5	N	" " " "	
7	L	≀≀ and ≀≀ scattered throughout, moving ENE.	
6	L	≀≀ scattered throughout; ≀≀ about zth.; a few drops of rain at 6h. 48m.	
6	L	≀≀ scattered throughout; ≀≀ in SW; a passing shower of rain at 7h. 22m.	
2	L	Masses of ≀≀ floating NE.	
2	C	" " "	
2	C	" " "	
2	C	" " "	
2	C	≀≀ scattered about hor., moving NE; light rain at 0h. 50m. which lasted 6m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 84°0 and 85°0. Daily fall of rain by Osler's Gauge 0.2; the Temperature of Evaporation at 2 P. M. was greatest, being about 2°3 higher than the Normal Mean for that hour; and at the same hour the Temperature of Free Air was about 5°1 higher than the Normal Mean, and its daily range was 10°4, greatest in the month.
3	N	≀≀ scattered here and there; light rain at 1h. 23m.	
8	N	Overcast; a passing shower of rain at 2h. 10m.	
5	N	≀≀ scattered about, moving NE.	
3	N	" " "	
4	L	" " "	
5	L	≀ and ≀≀ scattered about, the latter moving ENE.	
3	L	≀≀ around hor.; ≀≀ in SE; ≀ scattered here and there.	
2	L	≀≀ around hor.; ≀≀ scattered in SE and about zth.	
5	C	≀≀ scattered about, moving ENE; ≀ in SE and S.	
6	C	≀≀ scattered about, moving ENE; ≀≀ about zth.	
4	C	≀≀ around hor.; ≀ in S and NW.	
4	C	≀≀ and ≀≀ scattered about, both moving E.	
5	N	≀≀ scattered about, moving E.	
5	N	" " "	
8	N	Overcast with ≀≀, moving E.	
8	N	" " "	
8	L	Overcast; a few drops of rain at 5h. 50m.	
8	L	Overcast; drops of rain falling from full hour to 6h. 7m.	
8	L	Overcast; light rain at 7h. 5m. which ceased at 7h. 22m.	
8	L	Overcast.	
8	C	Overcast; light drizzling rain at 9h. 16m.	
8	C	Overcast; rain ceased at 10h. 20m.	
8	C	Overcast; light drizzling rain at 11h. 33m. which lasted 1m.	
8	C	Overcast; light rain at 6m. which ceased at 20m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 83°8 and 85°0. On the 25th evening minimum of Barometer was a little later
8	N	Overcast; raining lightly.	
8	N	" " "	
8	N	" " "	
8	N	" " "	
8	L	Overcast; rain ceased at 5h. 28m.	
8	L	Overcast with ≀≀, moving NNE.	
7	L	≀≀ scattered around hor.; ≀≀ about zth.; rain commenced at 7h. 43m.	
8	L	Overcast with ≀≀, moving NE; light rain now and then.	
8	C	Overcast; light rain at 9h. 2m. which ceased at 9h. 40m.	
8	C	Overcast, but no rain.	
8	C	Overcast; light showers of rain now and then.	
8	C	Overcast; light rain at 3m. which ceased at 33m.	
8	N	Overcast.	
8	N	"	
8	N	"	
8	N	"	
8	L	Overcast; rain commenced at 5h. 43m.	
8	L	Overcast with ≀≀, moving ENE; rain ceased at 6h. 19m.	
6	L	≀≀ scattered throughout, moving E; a passing shower of rain at 7h. 32m.	
3	L	≀≀ around hor.; dense ≀ scattered here and there.	
3	L	" " " " "	
4	L	≀≀ scattered about, moving E.	
3	L	≀≀ scattered about hor.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in seconds after the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
July 27th-Midnight	29.675	28.773	80°6	77°8	2°8	76°7	0.89	81°4	82°2	W b S	0.4					
1 a. m.	.657	.766	80.6	77.5	3.1	76.3	.87	81.5	82.2	„	0.2					
2 „	.648	.746	80.6	77.8	2.8	76.7	.89	81.4	82.2	„	0.2	0.01				
3 „	.643	.742	80.0	77.6	2.4	76.7	.90	81.0	82.0	„	0.1					
4 „	.649	.745	79.4	77.5	1.9	76.8	.92	80.6	81.9	„	0.2	0.04				
5 „	.646	.790	78.4	76.0	2.4	75.1	.90	79.8	81.7	SW	0.1					
6 „	.664	.757	79.4	77.6	1.8	76.9	.92	80.4	81.6	W b S	0.2					
7 „	.678	.815	77.7	76.0	1.7	75.3	.93	78.4	81.3	„	0.2	0.26				
8 „	.684	.803	77.3	76.3	1.0	76.0	.96	79.9	81.2	„	0.1	0.16				
9 „	.706	.789	80.0	78.0	2.0	77.2	.92	81.0	81.5	„	0.1					
10 „	.699	.747	80.6	79.0	1.6	78.4	.93	81.7	81.6	SW b S	0.1					
11 „	.691	.809	79.5	77.0	2.5	76.0	.90	81.0	81.6	WSW	0.1					
Noon.	.681	.723	82.0	79.5	2.5	78.6	.90	82.9	81.9	NW	0.1	0.01	None.	None.	None.	None.
1 p. m.	.661	.756	82.6	78.4	4.2	76.8	.83	83.4	82.0	W b S	0 to 1					
2 „	.638	.800	80.0	76.0	4.0	74.4	.84	79.4	81.7	NW b W	0 to 1					
3 „	.635	.682	82.0	79.4	2.4	78.4	.89	82.9	81.9	SW	0.5					
4 „	.621	.703	79.5	77.9	1.6	77.3	.93	80.2	81.7	SSW	0 to 2½	0.45				
5 „	.636	.795	76.2	75.0	1.2	74.5	.95	77.4	81.1	W b N	0.2	0.25				
6 „	.642	.788	76.4	75.4	1.0	75.0	.96	78.2	81.0	WSW	0.1	0.08				
7 „	.659	.778	77.3	76.3	1.0	76.0	.96	78.6	81.0	SW	0.3					
8 „	.682	.835	77.0	75.4	1.6	74.7	.93	78.2	80.9	WSW	0.2					
9 „	.683	.835	76.3	75.2	1.1	74.8	.95	77.9	80.6	SW	0.3					
10 „	.685	.814	77.0	76.0	1.0	75.6	.96	78.2	80.6	„	0 to ½	0.01				
11 „	.681	.812	77.2	76.0	1.2	75.5	.95	78.2	80.6	SW by S	0 to 2	0.02				
July 28th-Midnight	.659	.802	76.5	75.5	1.0	75.1	.96	77.2	80.5	W b S	0.6	0.41				
1 a. m.	.643	.750	76.8	76.5	0.3	76.4	.99	78.0	80.4	WSW	0.2	0.18				
2 „	.627	.736	76.6	76.4	0.2	76.3	.99	78.0	80.3	„	0.1	0.06				
3 „	.617	.745	76.9	76.0	0.9	75.6	.96	78.2	80.4	SW b W	0.3					
4 „	.617	.735	77.0	76.0	1.0	76.0	.96	78.2	80.4	WSW	0.2					
5 „	.622	.747	76.6	76.0	0.6	75.8	.97	78.0	80.3	„	0.2	0.01				
6 „	.632	.767	76.6	76.0	0.6	75.8	.97	77.8	80.2	SW b W	0.2					
7 „	.652	.777	77.1	76.4	0.7	76.1	.97	78.2	80.2	WSW	0.4					
8 „	.663	.777	77.0	76.4	0.6	76.1	.97	78.2	80.2	W	0.2	0.03				
9 „	.666	.751	77.3	77.2	0.1	77.2	1.00	78.4	80.2	„	0 to 1	0.30				
10 „	.666	.779	77.3	76.5	0.8	76.2	0.96	78.2	80.2	W b S	0 to ½	0.26				
11 „	.662	.765	77.3	76.7	0.6	76.5	.97	78.4	80.2	„	0 to ½	0.10				
Noon.	.648	.782	76.7	75.5	1.2	75.4	.95	77.8	80.2	WSW	0.4	0.08	None.	None.	None.	None.
1 p. m.	.633	.743	77.6	76.8	0.8	76.4	.97	78.8	80.2	„	0.4	0.07				
2 „	.615	.714	77.8	77.0	0.8	76.7	.97	79.1	80.2	„	0.4	0.13				
3 „	.601	.694	78.0	77.2	0.8	76.9	.97	79.2	80.2	W b S	0.6	0.12				
4 „	.597	.700	77.4	76.8	0.6	76.5	.97	78.4	80.2	WSW	0.5	0.14				
5 „	.608	.713	77.0	76.6	0.4	76.5	.98	78.2	80.2	SW	0.3	0.17				
6 „	.626	.737	77.1	76.5	0.6	76.3	.97	78.3	80.1	SSW	0.2	0.03				
7 „	.642	.789	76.1	75.3	0.8	75.0	.97	77.2	80.0	SW	0.3	0.03				
8 „	.658	.813	75.8	75.0	0.8	74.7	.97	77.2	79.8	W	0.1	0.03				
9 „	.664	.788	76.5	76.0	0.5	74.8	.98	77.6	79.8	„	0.4					
10 „	.670	.815	75.9	75.3	0.6	75.0	.97	77.2	79.7	SW b W	0.2					
11 „	.668	.794	76.7	76.0	0.7	75.7	.97	78.1	79.7	WSW	0.3					
July 29th-Midnight	.662	.793	76.4	75.8	0.6	75.2	.97	77.9	79.7	W b S	0.1					
1 a. m.	.639	.758	76.8	76.2	0.6	76.0	.97	78.1	79.7	„	0.0					
2 „	.620	.749	77.0	76.0	1.0	75.6	.96	78.2	79.8	„	0.0					
3 „	.605	.720	77.5	76.5	1.0	76.1	.96	78.5	79.9	WSW	0.2					
4 „	.605	.697	77.2	77.0	0.2	76.9	.99	78.3	79.8	SW	0.1	0.04				
5 „	.604	.710	77.2	76.7	0.5	76.4	.98	78.5	79.8	W b S	0.2	0.09				
6 „	.612	.715	77.4	76.8	0.6	76.5	.97	78.6	79.8	„	0.2					
7 „	.631	.722	77.1	77.0	0.1	76.9	1.00	78.2	79.8	„	0.4	0.03	None.	None.	None.	None.
8 „	.641	.732	77.1	77.0	0.1	76.9	1.00	78.2	79.7	„	0.4	0.03				
9 „	.641	.710	78.7	78.0	0.7	77.7	0.97	80.2	80.0	WSW	0.3					
10 „	.639	.703	80.2	78.5	1.7	77.9	.93	81.1	80.4	„	0.1					
11 „	.628	.661	81.6	79.6	2.0	78.9	.92	82.4	80.8	„	0.1					

Amount of Clouds 0—c.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ≀∩ cirro-strati; ∩∩ cumulo-strati; and ∩≀ nimbi.	
6	H	≀≀ scattered throughout, moving NE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 83°8 and 85°0. Daily fall of rain by Osler's Gauge 1.29. At 5 P. M. the Temperature of External and Free Air was as low as 76°2, being about 5°9 lower than the Normal Mean; at the same hour the Temperature of Evaporation was 75°0, the least in the month, and about 2°6 lower than the Normal Mean; the Wind blew abnormally this day.
7	C	Densely clouded with ≀≀; drizzling rain at 1h. 52m. which lasted 5m.	
5	C	≀≀ scattered about.	
4	C	≀≀ scattered about; drizzling rain at 3h. 8m. which lasted 17m.	
4	C	≀≀ scattered about, moving NE.	
8	L	Overcast with ≀≀, moving E.	
7	L	≀≀ scattered throughout; ≀ and ≀≀ about zth.; rain commenced at 6h. 18m.	
8	L	Overcast with ≀≀, moving E; rain ceased at 7h. 55m.	
8	L	Overcast.	
8	C	Overcast; a few drops of rain at 9h. 45m.	
8	C	Overcast; drops of rain falling.	
8	C	Overcast; raining lightly.	
8	C	Overcast; ceased at 35m.	
8	H	Overcast; drizzling rain commenced at 1h. 41m.	
8	H	Overcast; drizzling rain.	
8	H	" " "	
8	H	Overcast; raining.	
8	L	" "	
8	L	Overcast; rain ceased at 6h. 10m.	
8	L	Overcast; no rain.	
8	L	Overcast; drops of rain now and then.	
8	H	Overcast; drizzling rain at 9h. 32m.	
8	H	Overcast; drizzling rain.	
8	H	" " "	
8	H	Overcast with ≀≀, moving NE; raining.	Mean daily Temperature of Ground 20 and 60 inches below its surface 83°8 and 85°0. Daily fall of rain by Osler's Gauge 2.16. On this day the range of Air Thermometer was 2°2, least during the month. The Wind blew abnormally this day.
8	C	Overcast; raining.	
8	C	" "	
8	C	" "	
8	C	Overcast; few stars dimly visible about zth.; rain ceased at 4h. 33m.	
8	L	Overcast with ≀≀, moving ENE.	
8	L	" " " "	
8	L	Overcast with ≀≀, moving NE; raining lightly.	
8	L	" " " " "	
8	C	" " " " "	
8	C	Overcast with ≀≀, moving ENE; raining.	
8	C	" " " "	
8	C	" " " "	
8	H	" " " "	
8	H	Overcast; raining.	
8	H	" "	
8	H	" "	
8	L	Overcast; rain ceased at 5h. 55m.	
8	L	Overcast; rain commenced at 6h. 15m. and ceased at 6h. 27m.	
8	L	Overcast; rain commenced at 7h. 7m. [lasted for 4m.	
8	L	Overcast; light rain, ceased at 8h. 15m. and recommenced at 8h. 51m. which	
8	H	Overcast; a few stars dimly visible in N and NW.	
8	H	Overcast.	
8	H	Overcast; light rain at 11h. 14m. which lasted 12m.	
7	H	Overcast; drizzling rain at 7m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 33°8 and 85°0. Daily fall of rain by Osler's Gauge 0.64. The height of Barometer at 4 P. M. was 29.563, being about 0.070 lower than the Normal Mean; and its range was 0.099, greatest in the month.
8	C	Overcast with ≀≀, moving NE.	
8	C	≀≀ scattered about, moving NE.	
7	C	Clouded as before; rain commenced at 3h. 50m.	
7	C	Overcast; rain ceased at 4h. 49m.	
7	L	Overcast with ≀≀, moving NE.	
8	L	Overcast; light rain now and then.	
8	L	Overcast; light rain from 7h. to 7h. 45m.	
7	L	Overcast; no rain.	
8	C	" "	
8	C	" "	
7	C	Overcast; light rain at 11h. 2m. which lasted 4m.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in seconds in the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
July 29th-Noon.	29.618	28.670	81°0	79°0	2°0	78°3	0.92	81°8	80°8	WNW	0.3					
1 p. m.	.602	.675	81.0	78.5	2.5	77.6	.90	81.7	80.8	„	0.8					
2 „	.576	.632	81.0	78.9	2.1	78.1	.91	81.9	80.8	„	1.0					
3 „	.563	.651	79.6	77.9	1.7	77.2	.93	80.3	80.6	„	1.0					
4 „	.563	.668	78.4	77.0	1.4	76.5	.94	78.4	80.4	„	1.0	0.08				
5 „	.578	.690	77.2	76.5	0.7	76.2	.97	77.9	80.2	„	0.6	0.16				
6 „	.619	.772	76.4	75.2	1.2	74.7	.95	77.2	80.1	W b N	0.4	0.08	None.	None.	None.	None.
7 „	.632	.786	76.1	75.1	1.0	74.7	.96	77.1	79.9	„	0.3	0.14				
8 „	.641	.752	76.8	76.4	0.4	76.3	.98	77.8	79.9	„	0.2	0.01				
9 „	.648	.777	77.0	76.0	1.0	75.6	.96	78.2	79.9	„	0.2					
10 „	.657	.778	77.0	76.2	0.8	75.9	.97	78.2	79.9	„	0.1					
11 „	.648	.742	77.4	77.0	0.4	76.8	.98	78.3	79.9	„	0.2					
July 30th-Midnight	.634	.725	77.8	77.2	0.6	76.9	0.97	78.4	79.9	W b N	0.2					
1 a. m.	.615	.705	77.0	77.0	0.0	77.0	1.00	78.2	79.9	SSW	0.1	0.02				
2 „	.612	.719	76.8	76.5	0.3	76.4	0.98	77.8	79.7	ENE	0.2					
3 „	.615	.716	76.2	76.5	0.3	76.6	1.01	77.1	79.6	E b S	0.2	0.06				
4 „	.611	.727	75.8	76.0	0.2	76.1	1.01	76.9	79.5	SE	0.3					
5 „	.616	.734	76.0	76.0	0.0	76.0	1.00	77.1	79.5	S b E	0.2					
6 „	.635	.735	75.8	76.4	0.6	76.3	1.03	76.7	79.4	„	0.2	0.16				
7 „	.655	.750	76.0	76.6	0.6	76.8	1.03	76.9	79.3	SSE	0.2	0.14				
8 „	.673	.799	75.0	75.5	0.5	75.7	1.02	76.2	79.2	„	0.1	0.41				
9 „	.679	.748	77.2	77.6	0.4	77.7	1.02	78.2	79.5	W b S	0.1	0.02				
10 „	.679	.745	78.1	77.9	0.2	77.8	0.99	79.2	79.7	W b N	0.1					
11 „	.663	.723	79.4	78.4	1.0	78.0	0.96	80.1	80.0	„	0.1		None.	None.	None.	None.
Noon.	.657	.691	79.4	79.0	0.4	78.9	0.98	80.8	80.0	„	0.1	0.04				
1 p. m.	.649	.695	78.6	78.5	0.1	78.5	1.00	79.8	79.8	SW b W	0.1					
2 „	.633	.669	78.8	78.8	0.0	78.8	1.00	79.2	79.8	WNW	0.4	0.08				
3 „	.619	.726	76.4	76.4	0.0	76.4	1.00	77.2	79.4	„	0.4	0.41				
4 „	.592	.637	78.5	78.5	0.0	78.5	1.00	79.4	79.6	„	0.3	0.17				
5 „	.584	.591	79.2	79.6	0.4	79.7	1.02	80.2	80.0	W	0.4	0.01				
6 „	.610	.658	79.4	79.2	0.2	78.4	0.99	80.2	80.0	„	0.3					
7 „	.632	.694	78.1	78.0	0.1	77.9	1.00	78.7	80.1	„	0.2	0.06				
8 „	.659	.659	79.0	79.7	0.7	80.0	1.03	80.0	80.1	W b N	0.2	0.04				
9 „	.667	.663	79.0	79.8	0.8	80.1	1.03	80.0	80.1	„	0.3	0.02				
10 „	.678	.702	79.2	79.2	0.0	79.2	1.00	80.1	80.1	W	0.3					
11 „	.659	.660	79.4	79.8	0.4	79.9	1.02	80.2	80.2	„	0.4					
July 31st-Midnight	.650	.659	79.4	79.6	0.2	79.7	1.01	80.2	80.2	W b N	0.3					
1 a. m.	.634	.616	79.5	80.0	0.5	80.5	1.02	80.3	80.4	WNW	0.2					
2 „	.626	.629	79.6	79.8	0.2	79.9	1.01	80.3	80.5	„	0.4					
3 „	.610	.614	79.3	79.7	0.4	79.8	1.02	80.2	80.4	„	0.5					
4 „	.606	.624	79.4	79.4	0.0	79.4	1.00	80.2	80.4	NW b W	1.0					
5 „	.605	.635	79.0	79.0	0.0	79.0	1.00	80.0	80.4	WNW	0.5	0.06				
6 „	.625	.626	79.3	79.7	0.4	79.8	1.02	80.2	80.4	„	0.4					
7 „	.646	.727	79.8	78.0	1.8	77.3	0.93	80.7	80.5	W	0.5					
8 „	.664	.751	80.4	78.0	2.4	77.1	.90	81.2	80.6	W b N	0.4					
9 „	.663	.750	80.4	78.0	2.4	77.1	.90	81.2	80.7	W	0.2					
10 „	.662	.729	81.4	78.7	2.7	77.8	.89	81.8	80.9	„	0.1					
11 „	.657	.705	80.6	79.0	1.6	78.4	.94	81.0	80.9	„	0.0					
Noon.	.646	.682	80.3	79.2	1.1	78.8	.95	80.9	80.8	„	0.0	0.07	None.	None.	None.	None.
1 p. m.	.632	.668	82.6	79.8	2.8	78.8	.89	82.6	81.2	W b N	0.2					
2 „	.608	.654	82.8	79.6	3.2	78.5	.87	82.8	81.3	„	0.2					
3 „	.593	.645	81.7	79.2	2.5	78.3	.90	82.1	81.3	W	0.3	0.01				
4 „	.584	.679	81.1	78.0	3.1	76.8	.87	81.2	81.2	„	0.4					
5 „	.594	.690	80.4	77.8	2.6	76.8	.89	80.6	81.2	„	0.4					
6 „	.613	.725	79.0	77.0	2.0	76.2	.92	79.0	81.0	NNW	0.3					
7 „	.633	.769	78.4	76.2	2.2	75.4	.91	78.3	80.8	W	0.4	0.01				
8 „	.646	.790	77.6	75.8	1.8	75.1	.92	77.9	80.6	W b N	0.5					
9 „	.657	.821	77.4	75.2	2.2	74.3	.91	77.9	80.4	WNW	0.4					
10 „	.675	.826	77.2	75.5	1.7	74.8	.93	77.4	80.4	NNE	0.4					
11 „	.668	.835	76.9	75.0	1.9	74.2	.92	77.0	80.2	NE b E	0.6	0.01				

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: Ni cirri; Ni cirro-cumuli; Ci cumuli; Li cirro-strati; Ci cumulo-strati; and Ni nimbi.	
8	C	Overcast.	
8	H	"	
8	H	"	
8	H	Overcast; light rain commenced at 3h. 14m.	
8	H	Overcast; raining lightly.	
8	L	" " "	
8	L	" " "	
8	L	Overcast; rain ceased at 7h. 20m.	
8	L	Overcast with Ni, moving E.	
8	H	" " "	
8	H	Overcast; a few stars dimly visible in SE.	
8	H	Overcast; a few stars visible in W.	
7	H	Densely clouded with Ni, moving ENE; light rain at 0h. 5m. for 10m.; it recom-	Mean daily Temperature of Ground 20 and 60 inches below its surface 83°0 and 85°0. Daily fall of rain by Osler's Gauge 1.58; the reading of the Temperature of Air at 8 A. M. was lowest during the month, being about 4°5 lower than the Normal Mean; the Wind took unusual sweeps this day.
5	C	Ni scattered about, moving ENE; rain ceased at 1h. 3m. [menced at 40m.	
8	C	Overcast with Ni; rain commenced at 2h. 8m. which ceased at 2h. 25m.	
8	C	Overcast with Ni, moving WNW; light rain at 3h. 18m.	
5	C	Ni scattered about, moving WNW.	
8	L	Overcast with Ni, moving ENE; rain commenced at 5h. 17m.	
8	L	Overcast with Ni, moving N; raining.	
8	L	" " " "	
8	L	Overcast; raining lightly.	
8	C	Overcast; rain ceased at 9h. 20m.	
8	C	Overcast; with Ni, moving E; light fog along E hor.	
8	C	Overcast; with Ni, moving E; light rain at 11h. 3m. which ceased at 11h. 19m.	
8	C	Overcast; rain commenced at 0h. 1m.	
8	H	Overcast with Ni, moving ENE; raining lightly.	
8	H	Overcast; raining lightly.	
8	H	" " "	
8	H	Overcast with Ni, moving E; rain ceased at 4h. 20m.	
8	L	Overcast; a passing shower of rain at 5h. 7m.	
8	L	Overcast; rain commenced at 6h. 48m.	
8	L	Overcast; raining.	
8	L	" "	
8	H	" "	
8	H	Overcast; rain ceased at 10h. 50m.	
8	H	Overcast; light rain at 11h. 14m. which ceased at 11h. 40m.	
8	H	Overcast with Ni, moving ENE; light drizzling rain at 0h. 5m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°9 and 85°0. Daily fall of rain by Osler's Gauge 0.16.
8	C	Overcast in two strata with Ni, moving ENE.	
8	C	Overcast.	
8	C	Overcast; gusts of wind blowing.	
8	C	" " "	
8	L	Overcast; with Ni, moving E.	
8	L	" " "	
8	L	" " "	
8	L	" " "	
8	C	Overcast with Ni, moving ENE; a few drops of rain at 9h. 57m.	
8	C	Overcast with Ni, moving E; drizzling rain at 10h. 47m. which lasted 3m.	
8	C	Overcast; rain at 11h. 17m. which ceased at 11h. 36m.	
8	C	Overcast, but no rain.	
8	H	" " "	
8	H	Overcast; light rain at 2h. 46m which lasted 11m.	
8	H	Overcast.	
8	H	"	
8	L	Overcast; a passing shower of rain at 5h. 58m.	
8	L	Overcast; rain commenced at 6h. 5m. and ceased at 6h. 55m.	
8	L	Overcast.	
8	L	"	
8	H	"	
8	H	Overcast; rain commenced at 10h. 47m.	
8	H	Overcast; rain ceased at 11h. 30m. and recommenced at 11h. 5m.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in seconds after the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Aug. 1st-Midnight	29.660	28.782	76°4	76°0	0°4	75°9	0.98	76°6	80°0	NE b E	0.4	0·08				
1 a. m.	.633	.755	76.0	75.9	0.1	75.9	.99	76.5	79.8	SW	0 to 2	0.47				
2 „	.615	.712	76.0	76.8	0.8	76.7	1.04	76.6	79.6	SW b W	0 to 1½	0.37				
3 „	.615	.735	76.2	75.8	0.4	75.9	0.98	75.6	79.7	„	0 to 2	0.89				
4 „	.613	.765	76.2	75.2	1.0	74.8	.96	76.2	79.7	W b N	0 to 3	0.26				
5 „	.625	.756	76.4	75.8	0.6	75.5	.97	76.2	79.6	„	0.8	0.06				
6 „	.640	.784	76.2	75.4	0.8	75.1	.97	76.6	79.5	„	0.5	0.02				
7 „	.656	.832	76.0	74.5	1.5	73.9	.93	75.9	79.4	WNW	0.4	0.00				
8 „	.672	.829	76.0	75.0	1.0	74.6	.96	76.2	79.4	„	0.1	0.01				
9 „	.676	.806	76.7	75.9	0.8	75.6	.97	76.6	79.4	„	0.1	0.07				
10 „	.670	.773	77.8	76.9	0.9	76.5	.96	78.2	79.5	„	0.0	0.02				
11 „	.651	.774	78.2	76.5	1.7	75.8	.93	78.2	79.8	W	0.0	0.02				
Noon.	.631	.722	79.2	77.6	1.6	76.9	.93	79.3	80.0	„	0.0	0.01				
1 p. m.	.615	.759	76.2	75.4	0.8	75.1	.97	74.8	79.3	NW	0 to 1	0.39	Neg.	Out of Sc.	Out of Sc.	Instantly.
2 „	.601	.736	75.8	75.5	0.3	75.4	.99	75.2	79.2	WNW	0.3	1.12	Neg.	Out of Sc.	Out of Sc.	Instantly.
3 „	.577	.689	77.2	76.5	0.7	76.2	.97	76.7	79.4	NW	0 to 1	0.21				
4 „	.568	.677	76.6	76.4	0.2	76.3	.99	76.1	79.2	„	0 to 1	0.36				
5 „	.577	.695	77.0	76.3	0.7	76.0	.97	76.5	79.3	„	0.4	0.17				
6 „	.590	.715	76.6	76.0	0.6	75.8	.97	76.2	79.2	NW b N	0.1	0.14				
7 „	.616	.730	77.0	76.4	0.6	76.2	.97	77.2	79.4	„	0.0	0.02				
8 „	.619	.731	77.2	76.5	0.7	76.2	.97	77.3	79.4	„	0.0	0.01				
9 „	.631	.760	76.6	75.9	0.7	75.6	.97	76.3	79.4	WNW	0.2	0.13				
10 „	.646	.764	76.0	76.0	0.0	76.0	1.00	76.2	79.1	NW b W	0.1	0.15				
11 „	.648	.801	75.6	75.0	0.6	74.7	0.97	75.7	79.0	WNW	0.3	0.29				
Aug. 3rd-Midnight	.675	.776	78.0	77.0	1.0	76.6	.96	78.6	79.5	W b N	0.4					
1 a. m.	.651	.771	77.6	76.4	1.2	75.9	.95	78.0	79.6	„	0.2	0.01				
2 „	.646	.749	78.8	77.0	1.2	76.5	.95	78.3	79.8	W	0.6					
3 „	.638	.739	78.0	77.0	1.0	76.6	.96	78.2	79.8	W b N	1.2					
4 „	.644	.734	78.1	77.3	0.8	77.0	.97	78.3	79.8	„	0.2					
5 „	.646	.743	77.6	77.0	0.6	76.7	.97	78.0	79.6	„	0.3	0.04				
6 „	.670	.768	77.6	77.1	0.5	76.9	.98	78.0	79.6	„	0.2	0.05				
7 „	.686	.773	78.6	77.5	1.1	77.1	.95	78.4	79.7	WSW	0.3					
8 „	.711	.778	79.5	78.0	1.5	77.8	.94	79.8	79.9	„	0.3					
9 „	.723	.783	80.2	78.6	1.6	78.0	.93	80.3	80.2	„	0.3					
10 „	.732	.790	80.4	78.7	1.7	78.1	.93	80.6	80.4	„	0.4	0.03				
11 „	.734	.781	82.0	79.4	2.6	78.4	.89	81.8	80.7	„	0.3	0.08				
Noon.	.727	.778	82.4	79.4	3.0	78.3	.88	82.2	80.9	„	0.3		None.	None.	None.	None.
1 p. m.	.709	.770	81.8	79.0	2.8	78.0	.88	81.3	80.9	W b S	0.1					
2 „	.693	.765	81.7	78.7	3.0	77.6	.88	81.8	81.0	„	0.2					
3 „	.679	.742	82.0	79.0	3.0	77.9	.88	82.2	81.0	WSW	0.2					
4 „	.672	.761	78.8	77.5	1.3	77.0	.95	79.3	80.7	„	0 to 2					
5 „	.679	.763	80.1	78.0	2.1	77.2	.91	80.2	80.7	„	0.6					
6 „	.697	.817	79.7	77.0	2.7	75.9	.89	80.0	80.7	„	0.6					
7 „	.712	.799	79.6	77.8	1.8	77.1	.92	79.6	80.6	„	0 to 1					
8 „	.728	.816	79.7	77.8	1.9	77.1	.92	79.6	80.6	„	0.5					
9 „	.740	.859	79.6	77.0	2.6	76.0	.89	79.6	80.6	„	0.5					
10 „	.744	.858	79.2	77.0	2.2	76.1	.91	79.2	80.6	„	0.5					
11 „	.741	.855	79.2	77.0	2.2	76.1	.91	79.2	80.5	„	0.2					
Aug. 4th-Midnight	.727	.833	79.2	77.2	2.0	76.4	.91	79.4	80.5	WSW	0.2					
1 a. m.	.711	.823	79.0	77.0	2.0	76.2	.91	79.1	80.5	„	0.1					
2 „	.693	.768	78.9	77.0	1.7	77.5	.92	79.0	80.4	„	0.3					
3 „	.689	.783	79.0	77.2	1.8	76.5	.92	79.0	80.5	„	0.2					
4 „	.685	.768	78.2	77.5	0.7	77.2	.97	78.5	80.3	W b S	0.6	0.01				
5 „	.687	.795	78.6	77.0	1.6	76.4	.93	78.4	80.3	„	0.6					
6 „	.695	.802	78.5	77.0	1.5	76.4	.94	78.7	80.3	„	0.5		None.	None.	None.	None.
7 „	.709	.842	78.4	76.3	2.1	75.5	.91	78.0	80.2	„	0.4	0.04				
8 „	.727	.808	79.8	78.0	1.8	77.3	.92	80.2	80.3	W	0.3					
9 „	.734	.808	79.2	78.0	1.2	77.5	.95	79.5	80.5	WSW	0.5					
10 „	.734	.802	78.6	78.0	0.6	77.7	.97	78.9	80.2	W b S	0.7	0.12				
11 „	.734	.821	78.2	77.4	0.8	77.1	.97	78.2	80.2	W b N	0.6	0.12				

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩∪ cumulo-strati; and ≀∪ nimbi.	
8	H	Overcast with ≀∪, moving E; raining.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°8 and 85°0. Daily fall of rain by Osler's Gauge 5.4. Maximum Tension of Electricity by Henly's Apparatus 1.2. Maximum Length of Spark by Ronald's Measure 0.11.
8	C	Overcast; raining; gusts of wind at 1h. 37m.	
8	C	Overcast; raining; wind blowing in gusts whose force was about 2 lbs.	
8	C	Overcast; rain and gusts of wind.	
8	C	" " " "	
8	L	Overcast; rain ceased at 5h. 37m.	
8	L	Overcast in two strata with ≀∪, moving E.	
8	L	Overcast; light rain commenced at 7h. 17m.	
8	L	Overcast; raining lightly.	
8	C		
8	C	" " "	
8	C	" " "	
8	C	Overcast; light drizzling rain now and then	
8	C	Overcast; raining.	
8	H	Overcast; raining and lightning in SE observed at 1h. 30m.	
8	H	Overcast; raining.	
8	H	" "	
8	H	" "	
8	C	" "	
8	C	" "	
8	C	" "	
8	C	" "	
8	C	" "	
8	C	" "	
8	C	" "	
8	L	Overcast with ≀∪, moving E; light rain at 45m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°8 and 85°0. Daily fall of rain by Osler's Gauge 0.21. At 10 P. M. the Reading of Barometer was as high as 29.744, being about 0.050 higher than the Normal Mean.
8	C	Overcast; rain commenced at 1h. 16m. and ceased at 1h. 33m.	
8	C	Overcast.	
8	C	Overcast; a few stars visible in SW; drizzling rain.	
8	C	Overcast; raining.	
8	H	Overcast; raining lightly.	
8	H	Overcast but no rain.	
8	H	" "	
8	H	Overcast; light rain at 8h. 14m. which ceased at 8h. 28m.	
8	L	Overcast; light rain from 9h. 32m. to 9h. 37m.	
8	L	Overcast.	
8	L	"	
8	L	"	
8	C	Overcast; a passing shower of rain at 1h. 27m.	
8	C	Overcast; a passing shower of rain at 2h. 17m.	
8	C	Overcast; light rain at 3h. 16m. and at 3h. 40m.	
8	C	Overcast with ≀∪, moving E.	
8	H	Overcast with ≀∪, moving NE.	
8	H	" " "	
8	H	Overcast with ≀∪, moving E; light rain at 7h. 42m. which lasted 5m.	
8	H	Overcast with ≀∪, moving NE.	
8	L	Overcast with ≀∪, moving E.	
8	L	" " "	
8	L	≀∪ and ≀∩ scattered about, moving E; a few stars in NW.	
7	L	≀∪ around hor.; ≀∩ and ≀ scattered throughout.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°8 and 85°0. Daily fall of rain by Osler's Gauge 0.40.
8	C	≀∪ around hor., moving E; ≀∩ scattered throughout.	
5	C	Overcast with ≀∪ and ≀∩; light rain at 2h. 52m, which lasted a few minutes.	
8	C	Overcast; rain and wind at 3h. 5m. ceased at 3h. 14m.	
7	C	≀∪ and ≀∩ scattered throughout, both moving E.	
6	H	Clouded as before; a passing shower of rain at 5h. 30m.	
6	H	Clouded as before; a shower of rain at 6h. 54m. which lasted 4m.	
8	H	Overcast with ≀∪, moving NE.	
8	H	Overcast; a passing shower of rain at 8h. 12m.	
8	L	Overcast; rain commenced at 9h. 32m.	
8	L	Overcast; rain ceased at 10h. 2m.	
8	L	Overcast; rain at 11h. 12m. which lasted 12m.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Aug. 4th-Noon.	29.720	28.765	80°4	79°0	1°4	78°5	0.94	80°9	80°4	WSW	0.4	0.03				
1 p. m.	.701	.787	80.6	78.1	2.5	77.1	.90	80.9	80.7	W	0.6					
2 „	.682	.751	81.6	78.6	3.0	77.7	.88	81.9	80.9	„	0.4					
3 „	.661	.738	82.3	78.6	3.7	77.4	.85	82.2	81.2	„	0.4					
4 „	.646	.727	80.9	78.3	2.6	77.3	.89	80.9	81.0	„	0.4					
5 „	.656	.769	80.6	77.4	3.2	76.2	.87	80.6	81.0	„	0.6					
6 „	.681	.785	79.8	77.4	2.4	76.5	.90	79.6	80.9	„	0.5		None.	None.	None.	None.
7 „	.690	.806	79.4	77.0	2.4	76.1	.90	79.5	80.7	„	0.3					
8 „	.699	.790	79.2	77.6	1.6	76.9	.93	79.2	80.6	„	0.4	0.04				
9 „	.716	.824	78.6	77.0	1.6	76.4	.93	79.0	80.5	„	0.3					
10 „	.724	.836	79.0	77.0	2.0	76.2	.92	79.3	80.5	„	0.4					
11 „	.720	.834	79.2	77.0	2.2	76.1	.91	79.4	80.5	„	0.5					
Aug. 6th-Midnight	.655	.784	78.4	76.4	2.0	75.6	.92	77.9	80.3	W	0.6	0.02				
1 a. m.	.631	.728	77.3	76.9	0.4	76.7	.98	77.8	80.0	„	0.2	0.02				
2 „	.621	.734	76.9	76.4	0.5	76.2	.98	77.2	79.9	„	0.4	0.13				
3 „	.606	.731	76.6	76.0	0.6	75.8	.97	76.9	79.8	„	1.0	0.22				
4 „	.607	.743	76.2	75.6	0.6	75.4	.97	76.4	79.7	„	1.5	0.10				
5 „	.609	.729	76.2	76.0	0.2	75.9	.99	76.4	79.5	„	1.0	0.09				
6 „	.632	.738	77.4	76.7	0.7	76.4	.97	77.8	79.6	„	1.0					
7 „	.650	.751	78.0	77.0	1.0	76.6	.96	78.2	79.7	„	0.8					
8 „	.665	.767	78.7	77.0	1.1	76.6	.95	78.3	79.7	„	0.8	0.11				
9 „	.675	.767	78.7	77.4	1.3	76.9	.95	79.0	79.9	WSW	0.6					
10 „	.674	.750	79.4	78.0	1.4	77.5	.94	79.6	80.0	„	0.4					
11 „	.665	.764	77.8	77.0	0.8	76.7	.97	78.2	80.0	„	0.7	0.14				
Noon.	.659	.735	79.4	78.0	1.4	77.5	.94	79.7	80.1	W	0.6		None.	None.	None.	None.
1 p. m.	.633	.721	79.0	77.6	1.6	77.5	.94	79.3	80.1	WSW	0.3	0.01				
2 „	.618	.722	78.6	77.1	1.5	76.6	.94	78.5	80.2	„	0.4	0.06				
3 „	.602	.645	80.2	79.0	1.2	78.5	.95	80.4	80.4	„	0 to 1½					
4 „	.593	.680	78.2	77.4	0.8	77.1	.96	78.4	80.1	W	0 to 2	0.06				
5 „	.601	.706	78.4	77.0	1.4	76.5	.94	78.1	80.1	„	0 to 2½	0.09				
6 „	.613	.732	77.5	76.4	1.1	76.0	.95	77.2	80.0	W b S	0 to 2¾	0.05				
7 „	.626	.744	77.0	76.3	0.7	76.0	.97	77.1	80.0	„	0 to ¾	0.02				
8 „	.640	.724	78.3	77.5	0.8	77.2	.97	78.2	80.0	W	0 to 2½					
9 „	.644	.741	78.4	77.2	1.2	76.7	.95	78.5	80.0	„	0 to 1¾					
10 „	.652	.747	78.2	77.2	1.0	76.8	.96	78.4	80.0	„	0 to ½	0.03				
11 „	.643	.742	78.6	77.2	1.4	76.7	.94	78.7	80.0	„	0 to ½					
Aug. 7th-Midnight	.634	.737	78.2	77.0	1.2	76.5	.95	78.0	80.0	W	½ to 2	0.06				
1 a. m.	.609	.690	78.3	77.6	0.7	77.3	.97	78.7	80.0	„	0 to 5½					
2 „	.601	.719	77.4	76.4	1.0	76.0	.96	77.7	79.9	„	2½ to 3½	0.02				
3 „	.593	.690	77.6	77.0	0.6	76.7	.97	78.1	79.8	„	¾ to 4	0.01				
4 „	.592	.725	77.4	76.0	1.4	75.5	.94	77.4	79.9	„	¾ to 4					
5 „	.606	.716	78.0	76.8	1.2	76.3	.95	78.2	79.9	„	¼ to 3½					
6 „	.623	.743	78.3	76.6	1.7	75.9	.93	78.3	79.9	„	Steady.					
7 „	.643	.751	78.6	77.0	1.6	76.4	.93	78.4	79.9	„	¼ to 1½					
8 „	.658	.756	79.2	77.4	1.8	76.7	.92	79.3	79.9	„	Steady.					
9 „	.670	.773	80.0	77.5	2.5	76.5	.90	80.0	80.3	„	0 to 1½					
10 „	.673	.755	81.4	78.4	3.0	77.3	.88	81.4	80.5	„	0 to 3¾	0.01				
11 „	.672	.753	81.8	78.5	3.3	77.3	.86	82.0	80.7	„	0.8					
Noon.	.660	.791	80.0	76.8	3.2	75.5	.87	80.2	80.7	WSW	¼ to 3¾	0.01	None.	None.	None.	None.
1 p. m.	.654	.750	81.2	78.0	3.2	76.8	.87	81.2	80.9	W b S	1 to 2½					
2 „	.651	.745	81.7	78.2	3.5	76.8	.86	81.8	80.9	WSW	0 to 1½					
3 „	.634	.695	81.8	79.0	2.8	78.0	.89	82.0	80.9	„	0 to 1					
4 „	.621	.707	81.0	78.2	2.8	77.1	.89	81.0	80.9	„	0.8					
5 „	.621	.718	79.5	77.5	2.0	76.7	.92	79.3	80.7	„	0 to 1					
6 „	.637	.732	79.6	77.6	2.0	76.8	.92	79.9	80.7	„	0 to 1					
7 „	.649	.742	78.8	77.4	1.4	76.9	.94	78.7	80.5	W b S	0 to 2½					
8 „	.661	.773	79.4	77.1	2.3	76.2	.90	78.8	80.5	W	0 to ¾					
9 „	.673	.758	79.4	77.8	1.6	77.2	.93	79.5	80.5	„	½ to 2½					
10 „	.667	.758	78.6	77.4	1.2	76.9	.95	79.0	80.4	„	0 to 1	0.02				
11 „	.667	.749	79.2	77.8	1.4	77.3	.94	79.2	80.5	„	0 to 1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ≀∩ cirro-strati; ∩∩ cumulo-strati; and ≀∩ nimbi.	
8	L	Overcast with ≀∩ in two strata, moving NE.	
8	C	Overcast with ≀∩ in two strata, moving E.	
8	C	" " " " "	
8	C	" " " " "	
8	C	" " " " "	
8	H	" " " " "	
8	H	" " " " "	
8	H	Overcast; light rain at 7h. 52m. which lasted 5m.	
8	H	Overcast; no rain.	
8	L	Overcast; a lunar-halo.	
8	L	Overcast; a passing shower of rain at 10h. 18m.	
8	L	Overcast with ≀∩, moving E.	
8	L	Overcast with ≀∩, moving E; lightrain ceased at 0h. 10m. which recommenced	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°6 and 35°0. Daily fall of rain by Osler's Gauge 1.16.
8	C	Overcast raining. [at 45m.	
8	C	Overcast; rain accompanied with fresh breezes of wind.	
8	C	" " " " " "	
8	C	" " " " " "	
8	H	Overcast; rain ceased at 5h. 14m.	
8	H	Overcast; a passing shower of rain at 6h. 42m.	
8	H	Overcast with ≀∩, moving ENE; light rain at 7h. 8m. which ceased at 7h. 20m.	
8	H	Overcast; no rain.	
8	L	[at 10h. 52m.	
8	L	" "	
8	L	Overcast; a passing shower at 10h. 24m.; light rain at 10h. 34m. which ceased	
8	L	Overcast; no rain.	
8	L	Overcast; light rain from 4m. to 15m. [56m.	
8	C	Overcast; light rain at 1h. 37m. which lasted 4m. and recommenced at 1h.	
8	C	Overcast; rain ceased at 2h. 16m.	
8	C	Overcast; rain commenced at 3h. 26m.	
8	C	Overcast; light rain now and then. [at 5h. 43m.	
8	H	Overcast; light rain at full hour which ceased at 5h. 12m. and recommenced	
8	H	Overcast; rain ceased at 6h. 14m. which recommenced at 6h. 40m. and again	
8	H	Overcast; a passing shower of rain at 7h. 14m. [ceased at 6h. 50m.	
8	H	Overcast; fresh breezes of wind whose force was about 3 lbs.	
8	L	Overcast; a passing shower of rain at 9h. 17m.	
8	L	Overcast; a passing shower of rain at 10h. 24m.	
8	L	Overcast; rain at 11h. 16m. which lasted 6m. and recommenced at 11h. 56m.	
8	L	Overcast with ≀∩, moving E; no rain; gusts of wind.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°4 and 85°0. Daily fall of rain by Osler's Gauge 0.16.
8	C	Overcast; light rain at 1h. 27m. which lasted 3m.; gusts of wind.	
8	C	Overcast; light rain at 2h. 29m. which lasted 3m.; gusts of wind.	
8	C	Overcast; light drizzling rain at 3h. 20m.; gusts of wind.	
8	C	Overcast; passing shower of rain at 4h. 20m.; gusts of wind.	
8	H	Overcast; no rain; gusts of wind.	
8	H	" " " "	
8	H	Overcast with ≀∩, moving ENE.	
8	H	" " " "	
8	L	Overcast with ≀∩, moving E; a passing shower of rain at 9h. 8m.	
8	L	Overcast; no rain.	
8	L	Overcast; a passing shower of rain at 11h. 43m.	
8	L	Overcast; no rain.	
8	H	" "	
8	H	" "	
8	H	Overcast with ≀∩, moving ENE.	
8	H	Overcast; light rain at 4h. 5m. and at 4h. 44m.	
8	H	Overcast; no rain.	
8	H	Overcast with ≀∩, moving NE; light rain at 6h. 19m. which lasted 5m.	
8	H	Overcast; no rain. [NE.	
8	H	Overcast; rain commenced at full hour which ceased at 8h. 7m.; lightning in	
8	L	Overcast; a passing shower of rain at 9h. 32m. which ceased at 9h. 35m.	
8	L	Overcast; no rain.	
8	L	Overcast; a passing shower of rain at 11h. 21m.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the former degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Aug. 8th-Midnight	29.658	28.742	79°0	77°7	1°3	77°2	0.95	79°0	80°5	W	0 to 1½	0.04				
1 a. m.	.629	.709	79.0	77.8	1.2	77.3	.95	79.0	80.4	„	0.8					
2 „	.615	.709	78.5	77.3	1.2	76.8	.95	78.5	80.4	„	0 to 3½					
3 „	.615	.712	77.6	77.0	0.6	76·7	.97	78.0	80.2	„	⅛ to 2½	0.02				
4 „	.613	.749	77.6	76.0	1.6	75.4	.93	77.2	80.1	„	0 to 3⅜	0.20				
5 „	.619	.719	77.9	77.0	0.9	76.6	.96	78.0	80.2	„	⅛ to 3					
6 „	.637	.730	78.4	77.3	1.1	76.9	.95	78.7	80.1	„	0.8					
7 „	.653	.743	78.9	77.5	1.4	77.0	.94	79.2	80.1	W b S	0.8					
8 „	.662	.728	79.9	78.4	1.5	77.8	.94	80.2	80.2	WSW	0 to 1½					
9 „	.671	.714	80.2	79.0	1.2	78.6	.95	81.0	80.4	W b S	0 to 2					
10 „	.676	.740	79.8	78.4	1.4	77.9	.94	80.0	80.5	W	0.4	0.01				
11 „	.668	.735	80.0	78.4	1.6	77.8	.93	80.0	80.6	„	0 to 1½	0.01	None.	None.	None.	None.
Noon.	.649	.707	80.8	78.8	2.0	78.1	.92	80.9	80.7	„	0 to 3					
1 p. m.	.640	.698	80.8	78.8	2.0	78.1	.92	80.8	80.9	„	1 to 3					
2 „	.636	.728	80.8	78.0	2.8	76.9	.90	80.8	80.9	„	⅜ to 2⅓					
3 „	.622	.714	80.8	78.0	2.8	76.9	.90	80.9	80.9	„	½ to 3⅜					
4 „	.618	.701	80.0	78.0	2.0	77.2	.92	80.2	80.8	„	¼ to 3⅜					
5 „	.625	.738	79.8	77.2	2.6	76.2	.89	80.0	80.7	„	⅜ to 3					
6 „	.642	.764	79.2	76.8	2.4	75.9	.90	79.3	80.6	„	Steady.					
7 „	.646	.760	79.2	77.0	2.2	76.1	.91	79.2	80.6	„	Steady.					
8 „	.668	.768	79.4	77.4	2.0	76.6	.92	79.4	80.6	W b S	1 to 1½					
9 „	.681	.794	78.7	76.9	1.8	76.2	.92	78.3	80.4	„	1.0	0.04				
10 „	.687	.799	79.0	77.0	2.0	76.2	.92	79.1	80.5	„	1.5					
11 „	.683	.797	79.2	77.0	2.2	76.1	.91	79.2	80.5	„	1.0					
Aug. 10th-Midnight	.683	.814	78.6	76.4	2.2	75.5	.91	78.7	80.2	W b S	0.5	0.03				
1 a. m.	.665	.810	78.8	76.1	2.7	75.0	.89	79.0	80.3	W	0.4					
2 „	.656	.785	78.8	76.5	2.3	75.6	.90	79.0	80.2	„	0 to 1¼					
3 „	.641	.772	78.6	76.4	2.2	75.5	.91	78.7	80.2	„	0.3					
4 „	.633	.773	78.0	76.0	2.0	75.2	.92	78.2	80.0	„	0.2	0.01				
5 „	.634	.752	77.4	76.4	1.0	76.0	.96	77.4	80.0	„	⅜ to 3¼	0.08				
6 „	.637	.748	77.9	76.7	1.2	76.3	.95	78.2	80.0	„	0.8					
7 „	.655	.769	78.4	76.8	1.6	76·1	.93	78.6	80.0	WSW	0.8					
8 „	.665	.781	78.6	76.8	1.8	76.1	.92	78.6	80.0	„	0 to 4⅜	0.01				
9 „	.665	.762	78.4	77.2	1.2	76.7	.95	78.7	80.1	„	0 to 1					
10 „	.671	.757	78.8	77.6	1.2	77.1	.95	79.2	80.1	„	1½ to 4½	0.03				
11 „	.657	.733	78.6	77.8	0.8	77.5	.97	79.0	80.1	„	0.5	0.03	None.	None.	None.	None.
Noon.	.643	.755	79.0	77.0	2.0	76.2	.92	79.4	80.2	„	0 to 3¼					
1 p. m.	.624	.736	79.0	77.0	2.0	76.2	.92	79.2	80.3	W b S	1½ to 3					
2 „	.610	.722	78.0	76.7	1.3	76.2	.94	78.3	80.1	„	⅝ to 3½	0.07				
3 „	.591	.696	78.4	77.0	1.4	76.5	.94	78.7	80.1	„	½ to 2	0.02				
4 „	.580	.665	78.0	77.4	0.6	77.2	.97	78.6	80.0	„	1 to 2½	0.05				
5 „	.584	.671	78.2	77.4	0.8	77.1	.97	78.6	80.0	„	1 to 2	0.02				
6 „	.594	.695	78.0	77.0	1.0	76.6	.96	78.5	80.0	„	0 to 1½	0.03				
7 „	.604	.704	77.9	77.0	0.9	76.6	.96	78.4	80.0	„	0 to 1					
8 „	.608	.711	78.2	77.0	1.2	76.5	.95	78.4	80.0	„	0.6					
9 „	.631	.734	78.2	77.0	1.2	76.5	.95	78.7	80.0	„	0.3					
10 „	.638	.749	78.2	76.8	1.4	76.3	.94	78.7	79.9	„	0.3					
11 „	.628	.741	78.4	76.8	1.6	76.2	.93	78.8	79.9	„	0.5					
Aug. 11th-Midnight	.615	.721	78.5	77.0	1.5	76.4	.94	79.1	79.8	W b S	0.5					
1 a. m.	.597	.703	78.5	77.0	1.5	76.4	.94	79.0	79.8	„	0.7					
2 „	.587	.693	78.5	77.0	1.5	76.4	.94	79.2	80.0	„	0.4					
3 „	.579	.708	78.4	76.4	2.0	75.6	.92	78.9	80.0	„	0.8					
4 „	.578	.694	78.0	76.6	1.4	76.1	.94	78.8	80.0	„	0 to 1	0.02				
5 „	.583	.686	78.2	77.0	1.2	76.5	.95	78.9	80.0	„	0.6					
6 „	.591	.696	78.4	77.0	1.4	76.5	.94	79.0	80.0	„	0.5					
7 „	.606	.778	77.4	75.0	2.4	74.0	.90	77.4	79.5	W	0 to 1⅛	0.01	None.	None.	None.	None.
8 „	.614	.695	77.7	77.4	0.3	77.3	.99	78.8	79.6	„	0 to 1½	0.05				
9 „	.619	.708	78.4	77.4	1.0	77.0	.96	79.0	79.9	„	0 to 1	0.01				
10 „	.614	.709	80.0	77.7	2.3	76.8	.90	80.2	80.2	„	0 to 1⅓	0.03				
11 „	.600	.704	79.0	77.2	1.8	76.5	.93	79.4	80.2	W b N	⅓ to 3	0.02				

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∿i cirri; ∿i cirro-cumuli; ∩i cumuli; ⌒i cirro-strati; ∩i cumulo-strati; and ∿i nimbi.	
8	L	Overcast in two strata with ∿i, moving ENE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°2 and 85°0. Daily fall of rain by Osler's Gauge 0.32.
8	N	Overcast with ∿i, moving E; gusts of wind and rain in drops.	
8	N	Overcast; a passing shower of rain at 2h. 15m.; gusts of wind.	
8	N	Overcast; smart gusts of wind and rain at 3h. 6m. which lasted 13m.	
8	N	Overcast; small gusts of wind with light rain at the time of observation.	
8	H	Overcast in two strata with ∿i, moving E.	
8	H	Overcast with ∿i, moving ENE; light rain at 6h. 29m. which lasted 4m.	
8	H	Overcast; light rain at 7h. 5m. which lasted 5m.	
8	H	Overcast; light rain at 8h. 12m. which lasted 4m.	
8	L	Overcast; a passing shower of rain at 9h. 42m.	
8	L	Overcast; a passing shower of rain at 10h. 44m.	
8	L	Overcast; light rain at 11h. 6m. which ceased at 11h. 10m.	
8	L	Overcast; no rain.	
8	L	Overcast; light rain at 1h. 14m. which lasted 3m.	
8	L	Overcast; a few drops of rain at 2h. 8m.	
8	H	Overcast; no rain.	
8	H	Overcast; drizzling rain at 4h. 20m. which lasted 5m.	
8	H	Overcast; drizzling rain from 5h. 38m. to 5h. 50m.	
8	H	Overcast; drizzling rain at full hour and at 6h. 14m.	
8	H	Overcast with ∿i, moving E; a few stars dimly visible about 7h.	
8	H	Overcast; light rain at 8h. 44m. which lasted 5m.	
8	H	Overcast; no rain.	
8	H	Overcast with ∿i, moving ENE.	
8	H	" " " "	
8	L	Overcast with ∿i, moving ENE; a few drops of rain at the time of observation.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°0 and 85°0. Daily fall of rain by Osler's Gauge 0.36.
8	C	Overcast; no rain.	
8	C	Overcast; a few drops of rain at 2h. 17m.	
8	C	Overcast; drizzling rain from 3h. 2m. to 3h. 30m.	
8	C	Overcast; rain commenced at 4h. 17m.	
8	H	Overcast; rain ceased at 5h. 19m.	
8	H	Overcast; no rain.	
8	H	Overcast; light rain at 7h. 12m. and at 7h. 32m.	
8	H	Overcast; light rain at 8h. which lasted 5m. and recommenced at 8h. 28m.	
8	L	Overcast; rain ceased at 9h. 15m.	
8	L	Overcast; drops of rain falling now and then.	
8	L	" " " " "	
8	L	" " " " "	
8	C	Overcast; a shower of rain at 1h. 15m. which lasted 3m.	
8	C	Overcast; drops of rain falling.	
8	C	Overcast; light rain commenced at 3h. 22m.	
8	H	Overcast; raining lightly.	
8	H	" " "	
8	H	" " "	
8	H	" " "	
8	H	Overcast; no rain.	
8	G	Overcast; drops of rain falling now and then.	
8	G	Overcast with ∿i, moving NE;	
8	G	Overcast; a few stars dimly visible in NW.	
8	G	Overcast with ∿i, moving ENE; a few drops of rain at full hour; a few stars	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°0 and 85°0. Daily fall of rain by Osler's Gauge 0.85. At 4 P.M. the reading of Barometer 27.514, was lowest during the month and was about 0.130in. lower than the Normal Mean.
8	G	Overcast; drops of rain falling now and then. [dimly visible in SE.	
8	L	Overcast; rain commenced at 2h. 58m.	
8	L	Overcast; rain ceased at 3h. 8m.; a passing shower of rain at 3h. 36m.	
8	L	Overcast; no rain.	
8	H	Overcast.	
8	H	"	
8	H	Overcast; rain commenced at 7h.	
8	H	Overcast; rain ceased at 8h. 24m.	
8	L	Overcast; rain from 9h. 1m. to 9h. 10m. [lasted 5m.	
8	L	Overcast; light rain at 10h. 2m. which lasted 6m. and at 10h. 47m. which	
8	L	Overcast; no rain.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet-Bulb Thermometer.	Depression of Wet-Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 Inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Aug. 11th-Noon.	29.578	28.632	81°2	79°0	2°2	78°2	0.91	82°4	80°5	W b S	Steady.					
1 p. m.	.563	.628	81.8	78.9	2.9	77.8	.88	82.0	80.6	SW	0.5					
2 „	.543	.668	77.4	76.2	1.2	75.8	.95	77.8	80.0	WSW	0 to 3¼	0.34				
3 „	.523	.609	77.4	77.2	0.2	77.1	.99	78.5	80.0	„	2 to 3¼	0.21				
4 „	.514	.589	78.9	77.9	1.0	77.1	.96	79.9	80.0	„	1 to 1½					
5 „	.521	.621	77.2	76.8	0.4	76.6	.98	78.2	79.8	W b S	1 to 2½	0.08				
6 „	.535	.622	78.2	77.4	0.8	77.1	.97	79.1	79.9	„	1¼ to 4		None.	None.	None.	None.
7 „	.546	.650	78.7	77.1	1.6	76.5	.93	79.4	80.0	„	1 to 2					
8 „	.565	.667	78.8	77.2	1.6	76.6	.93	79.4	80.0	„	Steady.					
9 „	.585	.690	78.4	77.0	1.4	76.5	.94	79.2	80.0	„	Steady.					
10 „	.595	.709	78.4	76.8	1.6	76.1	.93	78.9	80.0	WSW	Steady.					
11 „	.583	.690	77.8	76.8	1.0	76.4	.96	78.6	79.8	„	1.0	0.06				
Aug. 12th-Midnight	.576	.695	78.2	76.6	1.6	76.0	.93	78.8	79.9	WSW	0.4					
1 a. m.	.556	.661	78.4	77.0	1.4	76.5	.94	79.0	79.9	„	0.5					
2 „	.540	.643	78.2	77.0	1.2	76.5	.95	79.0	79.9	„	1.0					
3 „	.537	.639	78.1	77.0	1.1	76.6	.95	78.9	79.8	SW b W	0.8					
4 „	.534	.637	78.2	77.0	1.2	76.5	.95	79.2	79.8	„	0.6					
5 „	.554	.658	78.3	77.0	1.3	76.5	.94	79.4	79.9	„	0.5					
6 „	.563	.649	78.5	77.5	1.0	77.1	.96	79.6	79.9	„	0.5					
7 „	.576	.636	79.4	78.4	1.0	78.0	.96	80.3	80.0	„	0.4					
8 „	.591	.655	79.8	78.4	1.4	77.9	.94	80.4	80.1	„	0.4	0.02				
9 „	.608	.685	80.2	78.2	2.0	77.4	.92	81.0	80.3	„	0.6	0.01				
10 „	.609	.691	81.0	78.3	2.7	77.3	.89	81.4	80.4	„	½ to ¾					
11 „	.600	.631	82.9	80.0	2.9	79.0	.88	83.2	80.8	„	¾ to 1		None.	None.	None.	None.
Noon.	.595	.630	81.7	78.4	3.3	77.2	.87	82.0	80.9	„	½ to 1					
1 p. m.	.576	.633	80.7	78.8	1.9	78.1	.92	81.2	80.6	WSW	1¼ to 3⅜	0.04				
2 „	.568	.623	80.9	78.9	2.0	78.2	.92	81.8	80.6	„	1¼ to 2¾					
3 „	.559	.639	81.2	78.4	2.8	77.3	.89	81.9	80.7	„	1 to 2					
4 „	.557	.628	82.0	78.8	3.2	77.6	.87	82.6	80.9	„	¾ to 2					
5 „	.557	.652	81.1	78.0	3.1	76.8	.87	81.4	81.0	„	½ to 2					
6 „	.575	.675	79.8	77.5	2.3	76.6	.90	80.3	80.8	„	½ to 1					
7 „	.592	.704	79.4	77.1	2.3	76.2	.90	80.1	80.7	„	⅓ to 1½					
8 „	.624	.751	79.3	76.7	2.6	75.7	.89	80.0	80.6	„	0 to ½					
9 „	.648	.754	79.2	77.2	2.0	76.4	.92	79.9	80.5	„	⅓ to 1					
10 „	.661	.785	79.3	76.8	2.5	75.8	.90	80.0	80.5	„	0.5					
11 „	.657	.777	79.0	76.8	2.2	75.9	.91	79.7	80.5	„	0 to 1					
Aug. 13th-Midnight	.641	.803	77.2	75.2	2.0	74.4	.91	77.6	80.2	WSW	0.3	0.08				
1 a. m.	.629	.767	77.8	76.0	1.8	75.3	.92	78.1	80.1	„	0.3					
2 „	.613	.732	78.2	76.6	1.6	76.0	.93	78.8	80.2	„	0.4					
3 „	.603	.727	77.6	76.3	1.3	75.8	.94	78.2	80.0	„	0 to 2⅛	0.03				
4 „	.592	.748	76.9	75.3	1.6	74.6	.93	77.2	79.8	„	0.4					
5 „	.594	.717	77.2	76.2	1.0	75.8	.96	78.0	79.9	„	0.5					
6 „	.613	.717	78.3	77.0	1.3	76.5	.94	79.0	80.0	„	0.5					
7 „	.631	.735	79.0	77.2	1.8	76.5	.92	79.5	80.0	SW b W	0.6					
8 „	.646	.731	80.2	78.0	2.2	77.2	.91	81.1	80.1	„	0 tol					
9 „	.657	.720	82.0	79.0	3.0	77.9	.88	82.7	80.5	„	0.5					
10 „	.674	.729	82.0	79.2	2.8	78.2	.89	82.7	80.6	WSW	0 tol					
11 „	.671	.733	83.4	79.4	4.0	77.9	.84	83.4	81.0	„	0.5					
Noon.	.667	.724	83.8	79.6	4.2	78.1	.84	83.8	81.3	„	0.4		None.	None.	None.	None.
1 p. m.	.646	.685	84.5	80.3	4.2	78.7	.84	84.3	81.4	„	0.7					
2 „	.627	.688	83.8	79.5	4.3	78.0	.83	84.1	81.3	„	0.8					
3 „	.610	.644	84.6	80.3	4.3	78.8	.83	84.3	81.5	„	0.8					
4 „	.600	.681	82.9	78.8	4.1	77.3	.84	83.3	81.6	„	1.3					
5 „	.597	.673	81.7	78.6	3.1	77.5	.87	82.2	81.5	„	0.6					
6 „	.612	.703	80.7	78.0	2.7	76.9	.89	81.2	81.3	SW b W	0.7					
7 „	.622	.729	80.0	77.4	2.6	76.4	.89	80.3	81.0	„	0.6					
8 „	.641	.744	79.7	77.4	2.3	76.5	.90	80.2	81.0	„	0.6					
9 „	.658	.783	79.4	76.8	2.6	75.8	.89	79.8	80.9	WSW	0.5					
10 „	.665	.779	78.4	76.8	1.6	76.1	.93	79.2	80.6	„	0 to 2⅓	0.05				
11 „	.676	.799	78.6	76.6	2.0	75.8	.92	79.0	80.6	„	0 tol	0.01				

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩ cumulo-strati; and ∪ nimbi.	
8	L	Overcast; no rain.	
8	H	Overcast; rain commenced at 1h. 5m.	
8	H	Overcast; raining.	
8	H	Overcast; raining lightly.	
8	H	" " "	
8	H	Overcast; rain ceased at 5h. 18m.	
8	H	Overcast; no rain.	
8	H	" "	
8	H	Overcast; rain commenced at full hour and ceased at 8h. 17m.	
8	L	Overcast; a few drops of rain at 9h. 20m.	
8	L	Overcast; raining from 10h. 12m. to 10h. 21m.	
6	L	≀≀ scattered about, moving ENE.	
8	L	Overcast with ≀≀, moving ENE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 82°0 and 85°0. Daily fall of rain by Osler's Gauge 0.07. On this day the Range of Barometer 0.127 was greatest in the month.
8	L	" " " "	
8	L	Overcast; light drizzling rain at 2h. 10m. which ceased at 2h. 40m. [at 3h. 51m.	
8	H	Overcast; drizzling rain at 3h. 17m. which lasted 5m.; a passing shower of rain	
8	H	Overcast with ≀≀, moving ENE.	
8	H	" " " "	
8	H	" " " "	
8	H	Overcast; passing showers of rain at 7h. 3m. and at 7h. 58m.	
8	H	Overcast; rain commenced at 8h. and ceased at 8h. 18m. [rain at 9h. 34m.	
8	L	≀ and ≀≀ scattered throughout, the former moving ENE; a passing shower of	
8	L	Clouded as before, but no rain.	
8	L	" " "	
8	L	Overcast; rain commenced at 0h. 8m. and ceased at 35m. [1h. 34m.	
8	H	Overcast; raining from 1h. 1m. to 1h. 11m.; rain accompanied with wind at	
8	H	Overcast; light rain at 2h. 9m. which lasted 7m.	
8	H	Overcast.	
8	H	" [5h. 57m.	
6	C	≀≀ scattered throughout; light rain commenced at 5h. 30m. which ceased at	
8	C	Overcast with ≀≀.	
5	C	≀≀ around hor. and in W.	
5	C	≀≀ scattered around hor.	
7	L	Densely clouded with ≀≀.	
8	L	" " "	
4	L	≀≀ scattered about, moving NE; light rain at 11h. 46m. which lasted 5m.	
5	L	≀≀ scattered about, moving NE; drizzling rain at 0h. 25m. which lasted 4m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°9 and 84°8. Daily fall of rain by Osler's Gauge 0.19.
6	C	≀≀ scattered about.	
6	C	≀≀ scattered throughout, moving NE; light rain from 2h. 13m. to 2h. 19m.	
4	C	≀≀ scattered about, moving NE.	
7	H	≀≀ scattered about; passing showers of rain at 4h. 10m. and 4h. 50m.	
8	H	Overcast with ≀≀, moving NE.	
8	H	≀≀ and ≀≀ scattered throughout, moving NE; drizzling rain at 6h. 50m.	
8	H	Overcast with ≀≀, moving NE; rain ceased at 7h. 3m.	
8	H	≀≀ and ≀≀ scattered throughout, moving NE.	
7	L	" " " "	
8	L	" " " "	
6	L	≀≀ around hor.; ≀ and ≀≀ scattered about.	
7	L	≀≀ scattered throughout, moving NE.	
8	G	Overcast; moderate breeze blowing.	
7	G	Densely clouded with ≀≀; moving ENE; haze around hor.; fresh breeze.	
6	G	Densely clouded with ≀≀, moving NE; haze around hor.; fresh breeze.	
8	G	Densely clouded with ≀≀, moving ENE; haze around hor.; fresh breeze.	
8	H	Densely clouded as before; a passing shower of rain at 5h. 21m.	
8	H	Overcast; No rain.	
6	H	≀≀ scattered throughout, moving NE.	
5	H	≀≀ scattered throughout, moving ENE.	
6	L	Clouded as before; light rain at 9h. 21m. which lasted 5m.	
4	L	≀≀ scattered about; a passing shower of rain at 10h. 58m.	
3	L	≀≀ scattered around hor.; moving ENE.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Aug. 14th-Midnight	29.663	28.807	78°4	76°0	2°4	75°1	0.90	79°0	80°5	WSW	0.6					
1 a. m.	.635	.780	78.5	76.0	2.5	75.0	.90	78.3	80.4	„	0.8					
2 „	.613	.720	78.5	77.0	1.5	76.4	.94	78.3	80.3	„	1.0					
3 „	.608	.770	77.2	75.2	2.0	74.4	.91	78.3	80.1	W b S	0 to 3½	0.02				
4 „	.612	.763	77.2	75.5	1.7	74.8	.93	77.5	80.1	„	0 to 1½	0.01				
5 „	.615	.748	77.4	76.0	1.4	75.5	.94	78.0	80.0	„	0 to 2¼					
6 „	.637	.741	77.9	76.9	1.0	76.5	.96	78.7	80.0	„	0 to 1					
7 „	.653	.747	78.8	77.4	1.4	76.8	.94	79.5	80.1	„	0 to 3					
8 „	.674	.734	81.0	78.8	2.2	78.0	.91	81.9	80.5	„	1.5					
9 „	.691	.766	81.6	78.6	3.0	77.5	.88	82.2	80.6	„	0.8					
10 „	.694	.771	81.8	78.6	3.2	77.4	.87	82.2	80.8	„	½ to 1	0.03				
11 „	.703	.773	83.4	79.2	4.2	77.7	.83	83.2	81.1	„	1½ to 2½					
Noon.	.693	.738	84.2	80.0	4.2	78.5	.84	83.9	81.4	„	½ to 1		None.	None.	None.	None.
1 p. m.	.676	.746	83.3	79.4	4.5	77.7	.82	83.9	81.5	WSW	0.4					
2 „	.656	.721	83.5	79.4	4.1	77.8	.84	83.5	81.5	„	¼ to 1½					
3 „	.652	.691	83.6	80.0	3.6	78.7	.86	83.8	81.6	SW	¼ to 1					
4 „	.642	.726	82.0	78.5	3.5	77.2	.86	82.0	81.5	WSW	¼ to 2					
5 „	.647	.745	81.4	78.0	3.4	76.7	.86	81.5	81.4	„	1.0					
6 „	.660	.771	80.4	77.4	3.0	76.3	.88	80.8	81.2	„	0 to 1½					
7 „	.669	.762	80.2	77.8	2.4	76.9	.90	80.4	81.1	„	0 to 1½					
8 „	.690	.813	80.0	77.0	3.0	75.8	.88	80.0	81.0	„	0 to 2					
9 „	.704	.810	79.6	77.3	2.3	76.4	.90	79.4	81.0	W b S	0 to 2					
10 „	.712	.850	76.4	75.6	0.8	75.3	.97	77.2	80.4	WSW	0 to 6¼	0.13				
11 „	.704	.839	77.6	76.0	1.6	75.4	.93	77.5	80.5	SW b W	0 to 3½	0.02				
Aug. 17th-Midnight	.662	.776	79.2	77.0	2.2	76.1	.91	79.5	80.1	W	0.5					
1 a. m.	.642	.756	78.8	76.9	1.9	76.1	.92	79.2	80.1	„	0 to 1					
2 „	.631	.755	78.3	76.5	1.8	75.8	.92	78.7	80.1	„	0 to ¼					
3 „	.618	.737	77.2	76.6	0.6	76.0	.97	77.6	79.8	„	0 to ¼	0.09				
4 „	.628	.754	76.0	75.8	0.2	75.7	.99	76.3	79.5	„	0 to 2¼	0.36				
5 „	.623	.743	76.2	76.0	0.2	75.9	.99	76.6	79.5	„	0 to 2½	0.31				
6 „	.637	.745	76.5	76.4	0.1	76.4	1.00	77.0	79.5	„	½ to 3	0.33				
7 „	.649	.753	76.9	76.6	0.3	76.5	.99	77.2	79.4	„	0.8	0.11				
8 „	.662	.738	77.9	77.6	0.3	77.5	.99	78.4	79.5	„	1.0	0.05				
9 „	.680	.738	78.6	77.0	1.6	76.4	.93	79.0	79.7	W b S	0 to 1					
10 „	.677	.770	79.4	77.6	1.8	76.9	.92	80.2	79.9	„	0.5					
11 „	.670	.730	80.2	78.6	1.6	78.0	.93	80.8	80.1	W	0.4					
Noon.	.649	.702	81.8	79.2	2.6	78.2	.89	82.4	80.4	„	0.5		None.	None.	None.	None.
1 p. m.	.626	.679	81.1	79.0	2.1	78.2	.91	81.6	80.5	W b S	0.3	0.01				
2 „	.608	.736	80.5	77.0	3.5	76.6	.85	79.6	80.7	W b N	0 to 2½	0.03				
3 „	.591	.676	80.2	78.0	2.2	77.1	.91	80.9	80.4	W	0.4	0.02				
4 „	.586	.699	79.8	77.2	2.6	76.2	.89	80.3	80.4	„	0.3					
5 „	.586	.684	78.8	77.3	1.5	76.7	.94	79.7	80.3	W b S	0.2	0.01				
6 „	.592	.685	78.8	77.4	1.4	76.9	.94	79.8	80.2	W	0.4					
7 „	.596	.702	78.5	77.0	1.5	76.4	.94	79.1	80.1	„	0.8					
8 „	.621	.728	78.2	76.9	1.3	76.4	.94	78.8	80.0	„	0.8					
9 „	.640	.779	77.2	75.8	1.4	75.2	.94	77.4	80.0	„	0 to 3	0.08				
10 „	.650	.764	77.0	76.4	0.6	76.1	.97	78.0	79.8	„	0.4					
11 „	.643	.748	77.6	76.8	0.8	76.5	.97	78.7	79.8	„	0.4	0.03				
Aug. 18th-Midnight	.624	.736	78.0	76.7	1.3	76.2	.94	78.7	79.8	W b S	0.5					
1 a. m.	.616	.725	78.0	76.8	1.2	76.3	.95	78.8	79.7	„	0.5					
2 „	.608	.723	78.2	76.7	1.5	76.1	.94	78.9	79.8	W	0.6					
3 „	.599	.706	78.2	76.9	1.3	76.4	.94	78.8	79.8	„	0.5					
4 „	.603	.771	77.0	75.0	2.0	74.2	.91	78.0	79.6	WNW	0 to 1½					
5 „	.605	.704	77.8	77.0	0.8	76.7	.97	78.8	79.6	W	0.4					
6 „	.624	.742	78.1	76.6	1.5	76.0	.94	78.9	79.7	„	0.5		None.	None.	None.	None.
7 „	.649	.754	77.3	76.7	0.6	76.5	.97	78.2	79.5	W b N	0 to 3¾	0.08				
8 „	.674	.761	78.2	77.4	0.8	77.1	.97	79.0	79.7	WSW	0.8	0.02				
9 „	.695	.776	79.8	78.0	1.8	77.3	.93	80.4	79.9	W	0.5					
10 „	.688	.770	81.0	78.3	2.7	77.3	.89	81.2	80.0	W b S	0.3	0.03				
11 „	.686	.744	80.8	78.8	2.0	78.1	.92	81.4	80.3	„	0 to 1¼	0.06				

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩∪ cumulo-strati; and ≀∪ nimbi.	
2	L	≀∪ scattered around hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°9 and 84°8. Daily fall of rain by Osler's Gauge 0.24.
4	G	≀∪ scattered about, moving E; fresh breeze blowing. [blowing	
6	G	≀∪ scattered throughout; a passing shower of rain at 2h. 9m.; fresh breeze	
6	G	≀∪ scattered throughout; a passing shower of rain at 3h. 55m.; fresh breeze	
8	G	Overcast with ≀∪, moving ENE; fresh breeze blowing. [blowing.	
8	H	" " " " " "	
8	H	Overcast; rain commenced at 6h. 3m. and ceased at 6h. 14m.	
8	H	Overcast with ≀∪ and ≀≀; a few ≀ in SW; haze around hor.	
8	H	Overcast with ≀∪ and ≀≀; light shower of rain at 8h. 19m.	
8	L	Clouded as before; rain commenced at 9h. 5m. and ceased at 9h. 21m.	
7	L	≀∪ around hor.; ≀≀ in NE and E; ≀ scattered throughout.	
7	L	Densely clouded with light ≀∪ and ≀.	
7	L	" " " "	
8	N	Overcast with ≀∪, moving E.	
8	N	Overcast with ≀∪ and ≀≀, the former moving E.	
8	N	Overcast.	
8	N	"	
8	H	"	
8	H	"	
8	H	Overcast; gusts of wind at 7h. 12m.	
8	H	Overcast; fresh breeze blowing.	
8	H	Overcast; rain falling now and then; gusts of wind blowing.	
8	H	Overcast; light rain at 10h. 20m; gusts of wind blowing.	
8	H	" " " " " "	
8	L	Overcast with ≀∪, moving E; a few drops of rain at 0h. 50m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°9 and 84°8. Daily fall of rain by Osler's Gauge 1.44.
8	C	Overcast; rain commenced at 1h. 46m.	
8	C	Overcast; raining lightly.	
8	C	Overcast; raining.	
8	C	" "	
8	H	" "	
8	H	" "	
8	H	" "	
8	H	Overcast; rain ceased at 8h. 19m.	
8	L	Overcast; a few drops of rain at 9h. 28m.	
8	L	Overcast; no rain.	
8	L	" "	
8	L	Overcast; a passing shower of rain at 0h. 43m.	
8	C	Overcast; rain commenced at 1h. 35m.	
8	C	Overcast; rain ceased at 2h. 22m.	
8	C	Overcast; no rain.	
8	C	Overcast; light drizzling rain at 4h. 18m.	
8	C	Overcast; no rain.	
8	H	" "	
8	H	Overcast; a passing shower of rain at 7h. 11m.	
6	H	≀∪ scattered throughout; rain commenced at 8h. 54m.	
8	L	Overcast; a few stars dimly visible in S; rain ceased at 9h. 12m.	
8	L	Overcast with ≀∪, moving E; a few stars visible in NE and about zth.; light	
8	L	Overcast; no rain. [rain at 10h. 32m. which lasted 4m.	
8	L	Overcast with ≀∪, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°9 and 84°8. Daily fall of rain by Osler's Gauge 0.34.
8	C	" " "	
8	C	Overcast; rain and wind commenced at 2h. 55m. which lasted about 6m.	
8	C	Overcast; no rain.	
8	C	Overcast; drizzling rain at 4h. 32m. which lasted 2m.	
8	H	Overcast; no rain. [14m. which ceased at 6h. 28m.	
8	H	Overcast with ≀∪ and ≀≀, both moving E; rain accompanied with wind at 6h.	
8	H	Overcast; rain commenced at 7h. which ceased at 7h. 34m.	
8	H	Overcast; no rain.	
8	L	Overcast; light rain at 9h. 5m. which lasted 10m.	
8	L	Overcast; light rain at 10h. 24m. which lasted 6m. [ceased at 11h. 54m.	
8	L	Overcast; light rain at 11h. 8m. which lasted 14m., and again at 11h. 38m. which	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in reconverting the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Aug. 18th–Noon.	29.676	28.797	78.0	76°5	1°5	75°9	0.94	78°8	80°0	W b N	0 to 1½	.003				
1 p. m.	.665	.731	79.6	78.3	1.3	77.8	.95	81.0	80.0	W	0 to 1					
2 „	.646	.727	80.5	78.1	2.4	77.3	.90	81.0	80.4	„	0.2					
3 „	.628	.775	80.5	79.0	1.5	78.4	.94	81.1	80.4	„	0.2	0.05				
4 „	.615	.718	78.0	77.0	1.2	76.5	.95	78.5	80.2	W b S	0 to 2	0.02				
5 „	.611	.683	79.0	78.0	1.0	77.6	.96	79.2	80.2	„	0.2					
6 „	.626	.735	78.0	76.8	1.2	76.3	.95	78.4	80.0	„	0.4	0.05				
7 „	.641	.737	78.3	77.2	1.1	76.8	.95	78.5	80.0	„	0.4		None.	None.	None.	None.
8 „	.659	.760	78.0	77.0	1.0	76.6	.96	78.2	80.0	„	0.6	0.01				
9 „	.679	.803	77.6	76.3	1.3	75.8	.94	77.7	79.8	„	0.4					
10 „	.684	.806	77.8	76.4	1.4	75.9	.94	78.0	79.8	„	0.3					
11 „	.682	.796	78.4	76.8	1.6	76.1	.93	78.8	79.9	„	0.5					
Aug. 19th–Midnight	.667	.772	78°4	77.0	1.4	76.5	.94	78.9	79.9	W b S	0.5					
1 a. m.	.663	.768	78.4	77.0	1.4	76.5	.94	78.8	80.0	„	0.1					
2 „	.647	.750	78.2	77.0	1.2	76.5	.95	78.4	79.9	„	0.1	0.03				
3 „	.633	.781	76.6	75.4	1.2	74.2	.95	76.8	79.6	W	0.1	0.02				
4 „	.634	.763	77.0	76.0	1.0	75.6	.96	77.3	79.5	„	0 to 1					
5 „	.636	.739	77.4	76.8	0.6	76.5	.97	77.7	79.6	„	0.4	0.05				
6 „	.645	.726	77.7	77.4	0.3	77.3	.99	78.2	79.6	„	0.5	0.01				
7 „	.664	.740	78.4	77.8	0.6	77.5	.97	79.0	79.7	„	0.4					
8 „	.684	.752	79.4	78.2	1.2	77.7	.95	80.0	79.9	„	0.4					
9 „	.696	.750	80.4	78.8	1.6	78.2	.93	80.8	80.1	„	0.3					
10 „	.712	.776	79.8	78.4	1.4	77.9	.94	80.5	80.0	W b S	0.3					
11 „	.712	.801	79.8	77.8	2.0	77.0	.92	80.2	80.1	W	0.4		None.	None.	None.	None.
Noon.	.698	.755	80.0	78.4	1.6	78.1	.93	80.8	80.1	„	0.3					
1 p. m.	.639	.803	79.2	77.0	2.2	76.1	.91	80.0	80.2	„	0 to 2½					
2 „	.662	.809	79.7	76.3	3.4	75.0	.84	80.2	80.3	„	1 to 2½					
3 „	.650	.696	81.1	78.9	2.2	78.5	.91	81.5	80.4	„	0.3					
4 „	.640	.745	80.2	77.5	2.7	76.5	.89	80.5	80.4	W b S	½ to 1½					
5 „	.642	.735	79.4	77.6	1.8	76.9	.92	79.7	80.2	„	0.6	0.06				
6 „	.648	.752	79.0	77.2	1.8	76.5	.92	79.3	80.1	„	0 to ½					
7 „	.662	.793	76.8	75.9	0.9	75.5	.96	77.5	79.8	„	0 to ¼	0.02				
8 „	.679	.831	75.6	75.0	0.6	74.8	.97	75.8	79.5	„	0 to 1	0.04				
9 „	.692	.810	77.0	76.0	1.0	76.0	.96	77.3	79.5	„	1 to ¼					
10 „	.699	.856	76.0	75.0	1.0	74.7	.96	76.5	79.4	„	0.5					
11 „	.694	.841	77.2	75.6	1.6	75.0	.93	77.2	79.4	W	0.8					
Aug. 20th–Midnight	.682	.795	76.6	76.3	0.3	76.2	.99	77.2	79.3	W b S	0.2	0.01				
1 a. m.	.660	.787	77.2	76.1	1.1	75.7	.95	77.8	79.4	„	0.1					
2 „	.636	.763	77.2	76.1	1.1	75.7	.95	77.8	79.4	W	0.3	0.01				
3 „	.633	.731	77.7	77.0	0.7	76.7	.97	78.2	79.4	W b S	0.1					
4 „	.635	.738	77.4	76.8	0.6	76.5	.97	78.1	79.5	W	0.0					
5 „	.634	.732	77.7	77.0	0.7	76.7	.97	78.2	79.5	„	0.2					
6 „	.642	.740	77.7	77.0	0.7	76.7	.97	78.3	79.5	„	0.3					
7 „	.658	.767	78.0	76.8	1.2	76.3	.95	78.7	79.5	„	0.6					
8 „	.676	.771	78.2	77.2	1.0	76.8	.96	79.2	79.5	„	0.5					
9 „	.688	.841	77.0	75.4	1.6	74.7	.93	79.8	79.3	WNW	¼ to 4	0.07				
10 „	.695	.778	80.0	78.0	2.0	77.2	.92	80.7	79.8	W b S	¼ to 1					
11 „	.697	.849	79.8	76.2	3.6	74.8	.85	79.0	80.1	WNW	¼ to 1					
Noon.	.683	.817	78.2	76.2	2.0	75.4	.92	78.8	79.2	W	¼ to 1		None.	None.	None.	None.
1 p. m.	.658	.696	79.7	79.0	0.7	78.7	.97	80.5	79.9	W b S	0.3	0.05				
2 „	.646	.779	79.1	76.5	2.6	75.5	.91	79.6	80.0	WSW	0.2					
3 „	.637	.790	79.2	76.0	3.2	74.7	.87	79.6	80.0	„	0.1					
4 „	.626	.709	80.0	78.4	2.0	77.2	.92	80.4	80.1	„	0.1					
5 „	.629	.714	78.0	77.4	0.6	77.2	.97	78.9	79.7	W	0.6	0.04				
6 „	.630	.755	78.0	76.4	1.6	75.8	.93	78.7	79.7	„	0.4					
7 „	.632	.732	77.9	77.0	0.9	76.6	.96	78.5	79.6	W b S	0.2					
8 „	.654	.758	78.3	77.0	1.3	76.5	.94	78.8	79.6	„	0.3					
9 „	.666	.772	77.4	76.7	0.7	76.4	.97	78.4	79.5	W	0.5					
10 „	.665	.776	78.2	76.8	1.4	76.3	.94	79.2	79.6	W b S	0.5					
11 „	.656	.761	78.4	77.0	1.4	76.5	.94	79.2	79.7	„	0.4					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∿ cirri; ∿∿ cirro-cumuli; ⌒ cumuli; ⌒̃ cirro-strati; ⌒̃ cumulo-strati; and ∿∿ nimbi.	
8	L	Overcast; light drizzling rain at 5m.	
8	C	Overcast; light drizzling rain at 1h. 3m.	
8	C	Overcast; light rain at 2h. 35m. which lasted 6m.	
8	C	Overcast; light rain at 3h. 41m. which lasted 3m.	
8	C	Overcast; no rain.	
8	H	Overcast; a passing shower of rain at 5h. 20m.	
8	H	Overcast; haze around hor.	
8	H	Overcast; drizzling rain now and then.	
8	H	Overcast; rain commenced at full hour and ceased at 8h. 20m.	
8	L	Overcast; no rain.	
8	L	" "	
8	L	" "	
8	L	Overcast with ∿∿, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°8 and 84°7. Daily fall of rain by Osler's Gauge 0.23.
8	C	Overcast; a shower of rain at 1h. 50m. which lasted 5m.	
8	C	Overcast; rain commenced at 2h. 38m. and ceased at 2h. 57m.	
8	C	Overcast; no rain.	
8	C	Overcast; a shower of rain at 4h. 20m. which lasted 3m.	
8	H	Overcast; rain commenced at 5h. and ceased at 5h. 12m.	
8	H	Overcast; haze around hor.	
8	H	" " "	
8	H	" " "	
8	L	Overcast with ∿∿, moving ENE; light rain at 9h. 20m. which lasted 4m.	
8	L	Overcast; no rain.	
8	L	Overcast with ∿∿, moving E.	
8	L	" " "	
8	C	" " "	
8	C	" " "	
8	C	Overcast with ∿∿ and ∿∿; light drizzle at 3h. 25m.	
8	C	Overcast; light rain at 4h. 2m. which lasted 11m.	
8	H	Overcast; haze around hor.	
8	H	Clouded as before; light rain at 6h. 30m. which ceased at 6h. 48m.	
8	H	Overcast; rain and wind commenced at 7h. 32m.	
8	H	Overcast; rain ceased at 8h. 14m.	
8	L	Overcast; no rain.	
8	L	" "	
8	L	Overcast; light rain at 11h. 8m. which lasted 4m.	
8	L	Overcast with ∿∿, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°7 and 84°5. Daily fall of rain by Osler's Gauge.
8	C	Overcast; light rain at 1h. 6m. which lasted 6m.	
8	C	Overcast; no rain.	
8	C	Overcast; rain commenced at 3h. 26m. and ceased at 3h. 46m.	
8	C	Overcast; no rain.	
8	H	Overcast; drizzling rain at 5h. 5m. which lasted 7m.	
8	H	Overcast; a passing shower of rain at 6h. 40m.	
8	H	Overcast; light rain at 7h. 30m. which lasted 10m.	
8	H	Overcast; light showers of rain at 8h. 14m. and at 8h. 24m.	
8	L	Overcast; no rain.	
8	L	Overcast; drops of rain falling from 10h. 57m.	
8	L	Overcast; drops of rain falling.	
8	L	Overcast; rain ceased at 0h. 42m.	
8	C	Overcast with ∿∿ and ∿∿, both moving E.	
8	C	Overcast with ∿∿, moving E.	
8	C	Overcast.	
8	C	Overcast; light rain at 4h. 16m. which ceased at 4h. 49m.	
8	H	Overcast; no rain.	
8	H	" "	
8	H	" "	
8	H	" "	
8	L	" "	
8	L	Overcast; a few stars dimly visible about 2th.	
8	L	Overcast; a shower of rain at 11h. 44m. which lasted 4m.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 Inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Aug. 21st-Midnight	29.644	28.769	77°4	76°2	1°2	75°8	0.95	78°4	79°6	W b S	0.4	0·03				
1 a. m.	.634	.732	77.7	77.0	0.7	76.9	.97	78.8	79.5	WSW	0.3	0.04				
2 „	.616	.815	76.4	74.0	2.4	73.0	.90	76.8	79.5	W N W	0.8					
3 „	.614	.724	77.6	76.4	1.2	76.3	.95	78.2	79.5	WSW	0.3	0.04				
4 „	.614	.733	77.1	76.3	0.8	76.0	.97	78.2	79.3	„	0.4					
5 „	.621	.737	77.2	76.4	0.8	76.1	.97	78.2	79.4	„	0.4	0.03				
6 „	.637	.734	77.6	77.0	0.6	76.7	.97	78.8	79.4	„	0.4					
7 „	.663	.865	76.0	73.8	2.2	72.9	.91	77.0	79.1	„	0.3	0.02				
8 „	.689	.833	76.2	75.4	0.8	75.1	.97	77.0	79.1	„	0.8	0.03				
9 „	.690	.819	77.0	76.0	1.0	75.6	.96	78.2	79.0	„	0.4	0.02				
10 „	.692	.821	78.4	76.4	2.0	75.6	.92	79.5	79.4	„	0.4					
11 „	.686	.813	79.0	76.6	2.4	75.9	.90	79.8	79.5	„	0.3	0.08				
Noon.	.674	.776	78.8	77.2	1.6	76.6	.93	79.8	79.5	„	0.7	0.07	None.	None.	None.	None.
1 p. m.	.662	.781	79.6	77.0	2.6	76.0	.89	80.2	79.7	„	0.5					
2 „	.647	.732	80.2	78.0	2.2	77.2	.91	80.8	79.8	„	0.4					
3 „	.641	.756	79.3	77.0	2.3	76.1	.90	79.8	79.8	SW	0.6					
4 „	.628	.785	76.0	75.0	1.0	74.6	.96	76.2	79.2	W b N	0.8	0.07				
5 „	.636	.765	77.0	76.0	1.0	75.6	.96	77.9	79.2	WSW	0.6					
6 „	.640	.806	76.8	75.0	1.8	74.3	.92	77.5	79.2	„	0.8					
7 „	.644	.808	77.0	75.1	1.9	74.3	.92	77.7	79.2	„	0.8					
8 „	.653	.859	76.3	73.8	2.5	72.8	.89	76.7	79.0	WNW	0.2					
9 „	.678	.819	77.3	75.8	1.5	75.2	.94	78.2	79.1	W b S	0.2					
10 „	.684	.785	78.0	77.0	1.0	76.6	.96	78.7	79.2	WSW	0.4					
11 „	.682	.822	78.0	76.0	2.0	75.2	.92	78.7	79.2	W b S	0.4					
Aug. 22nd-Midnight	.673	.807	78.2	76.2	2.0	75.4	.92	78.8	79.3	WSW	0.4					
1 a. m.	.664	.768	78.3	77.0	1.3	76.5	.94	78.8	79.2	„	0.4					
2 „	.645	.790	77.7	75.8	1.9	75.0	.92	78.2	79.1	W b S	0.5					
3 „	.637	.772	77.5	76.0	1.5	75.4	.94	78.2	79.1	„	0.3					
4 „	.637	.749	77.6	76.6	1.0	76.2	.96	78.2	79.1	WSW	0.3					
5 „	.645	.772	77.8	76.3	1.5	75.7	.94	78.3	79.1	W b S	0.3					
6 „	.660	.788	77.9	76.3	1.6	75.7	.93	78.5	79.2	WSW	0.2					
7 „	.680	.790	78.8	77.0	1.8	76.3	.92	79.4	79.4	„	0.4					
8 „	.695	.810	79.3	77.0	2.3	76.1	.90	79.9	79.5	„	0.6					
9 „	.711	.763	81.0	79.0	2.0	78.3	.92	81.7	79.9	„	0.2					
10 „	.717	.749	83.0	80.0	3.0	78.9	.88	83.2	80.4	W b S	0.3					
11 „	.721	.756	84.0	80.2	3.8	78.9	.85	83.7	80.5	„	0.4					
Noon.	.705	.712	84.6	81.0	3.6	79.7	.86	84.2	80.9	W	0.4		None.	None.	None.	None.
1 p. m.	.693	.775	83.0	78.8	4.2	77.3	.83	82.2	81.0	„	0.4	0.03				
2 „	.675	.773	81.2	78.0	3.2	76.7	.87	81.2	80.5	W b N	0.2					
3 „	.664	.786	81.4	77.4	4.0	75.9	.84	81.2	80.5	WNW	0.3					
4 „	.660	.785	80.2	77.0	3.2	75.8	.87	80.6	80.3	W b N	0.2					
5 „	.667	.790	78.2	76.5	1.7	75.8	.93	78.8	80.0	„	0.2	0.04				
6 „	.679	.808	78.4	76.4	2.0	75.6	.92	78.9	80.1	W b S	0.2					
7 „	.693	.844	78.0	75.7	2.3	74.8	.90	78.7	80.0	W	0.3					
8 „	.717	.861	78.4	76.0	2.4	75.1	.90	78.8	79.9	WSW	0.1					
9 „	.735	.870	76.8	75.8	1.0	75.4	.96	77.8	79.7	W	0.2	0.03				
10 „	.740	.895	76.6	75.2	1.4	74.7	.94	77.2	79.5	„	0.5	0.02				
11 „	.735	.834	77.8	77.0	0.8	76.7	.97	78.4	79.6	„	0.3					
Aug. 24th-Midnight	.775	.898	78.6	76.6	2.0	75.8	.92	79.2	80.0	WSW	0.2					
1 a. m.	.752	.871	78.2	76.6	1.6	76.0	.93	78.4	80.0	„	0.1					
2 „	.742	.883	78.1	76.0	2.1	75.2	.91	78.3	80.0	„	0.1					
3 „	.734	.874	78.0	76.0	2.0	75.2	.92	78.4	80.0	„	0.1					
4 „	.732	.843	78.2	76.8	1.4	76.3	.94	78.4	80.0	SW b W	0.1					
5 „	.740	.844	78.3	77.0	1.3	76.5	.94	78.6	80.0	WSW	0.1					
6 „	.754	.858	78.3	77.0	1.3	76.5	.94	78.9	80.0	„	0.1		None.	None.	None.	None.
7 „	.773	.883	78.8	77.0	1.8	76.3	.92	79.3	80.0	„	0.2					
8 „	.784	.860	78.6	77.8	0.8	77.5	.97	79.6	79.9	„	0.3	0.04				
9 „	.796	.852	81.4	79.0	2.4	78.1	.90	82.0	80.3	W	0.3					
10 „	.809	.872	82.0	79.0	3.0	77.9	.88	82.2	80.5	WSW	0.2					
11 „	.810	.911	81.6	78.0	3.6	76.6	.86	81.8	80.7	W b S	0.1					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≈ cirri; ≈≈ cirro-cumuli; ∩ cumuli; ⌒ cirro-strati; ∩⌒ cumulo-strati; and ≈≈ nimbi.	
8	L	Overcast; a passing shower of rain at 0h. 35m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°5 and 84°3. Daily fall of rain by Osler's Gauge 0.47; the Temperature of Evaporation at 7 A.M. was lowest in the month, and about 3°0 lower than the Normal Mean.
8	C	Overcast; light drizzling rain at 1h. 40m. which lasted 10m.	
8	C	Overcast; rain at 2h. 44m. which lasted 5m.	
8	C	Overcast; no rain.	
8	C	Overcast; a passing shower of rain at 4h. 42m.	
8	H	Overcast; no rain.	
8	H	Overcast; light rain at 6h. 4m. which ceased at 6h. 18m.	
8	H	Overcast; drizzling rain at 7h. 48m.	
8	H	Overcast; rain commenced at 8h. which ceased at 8h. 17m.	
8	L	Overcast; no rain.	
8	L	Overcast; light rain at 10h. 32m. which lasted 10m.	
8	L	Overcast with ≈, moving NE; light rain 11h. 9m. and at 11h. 29m. which lasted	
8	L	Overcast with ≈, moving ENE; no rain. [in both instances 10m.	
8	N	Overcast with ≈, moving E.	
8	N	" " "	
8	N	Overcast; rain commenced at 3h. 40m.	
8	N	Overcast; rain ceased at 4h. 15m.	
8	H	Overcast; no rain.	
8	H	" "	
8	H	Overcast; rain and wind at 7h. 15m.	
8	H	Overcast; rain ceased at 8h. 10m.	
8	L	Overcast; a few drops of rain at 9h. 17m.	
8	L	Overcast; no rain.	
8	L	" "	
8	L	Overcast with ≈, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°3 and 84°2. Daily fall of rain by Osler's Gauge 0.12; the Temperature of Evaporation at noon was greatest in the month, and about 2°6 higher than the Normal Mean.
8	N	" " "	
8	N	" " "	
8	N	Overcast; a passing shower of rain at 3h. 40m.	
8	N	Overcast; no rain.	
8	H	Overcast.	
8	H	Overcast with ≈, moving ENE; haze around hor.	
8	H	Overcast with ≈, moving E; haze around hor.	
8	H	Overcast.	
7	L	≈ and ≈ scattered throughout, both moving ENE.	
6	L	≈ around hor.; ≈ scattered throughout, moving E.	
5	L	" " " " " " [rain at 0h. 55m.	
6	L	≈ and ≈ scattered throughout, the former moving E; a passing shower of	
8	N	Overcast with ≈, moving E.	
8	N	Overcast.	
8	N	"	
8	N	Overcast; light rain at 4h. 22m. which ceased at 4h. 34m.	
8	L	Overcast; no rain.	
8	L	" "	
8	L	" "	
8	L	Overcast; light rain at 8h. 15m. which ceased at 8h. 27m.	
8	L	Overcast; a shower of rain at 9h. 24m. which lasted 3m.	
8	L	Overcast; no rain.	
8	L	" "	
8	L	Overcast with ≈, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°1 and 84°0. Daily fall of rain by Osler's Gauge 0.04; the highest reading of Barometer during the month occurred at 11 A.M.
8	N	" " "	
8	N	Overcast; a few stars dimly visible.	
8	N	" " " "	
8	N	Overcast.	
8	H	Overcast; haze around hor.	
8	H	Overcast; light rain at 7h. 15m. which lasted 7m.	
8	H	Overcast; no rain.	
8	H	" "	
8	L	" "	
8	L	" "	
8	L	" "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Aug. 24th-Noon.	29.795	28.846	84°0	79°8	4°2	78°3	0.84	83°6	81°1	W	0.1					
1 p. m.	.777	.830	84.2	79.8	4.4	78.2	.83	84.0	81.2	WSW	0.1					
2 „	.755	.905	83.2	77.2	6.0	74.8	.77	83.0	81.2	W	0.2					
3 „	.740	.918	82.2	76.2	6.0	73.8	.77	82.2	81.1	W b S	0.1					
4 „	.740	.843	82.6	78.2	4.4	76.5	.83	82.8	81.2	WSW	0.1					
5 „	.741	.948	81.4	77.8	3.6	76.4	.85	81.4	81.0	W b S	0.2					
6 „	.760	.918	78.2	75.6	2.6	74.5	.89	77.4	80.5	WNW	0.6	None.	None.	None.	None.	None.
7 „	.767	.890	78.6	76.6	2.0	75.7	.92	78.6	80.3	„	0.2					
8 „	.778	.935	78.1	75.6	2.5	74.5	.89	78.5	80.3	W	0.2					
9 „	.783	.921	77.8	76.0	1.8	75.3	.92	78.2	80.2	„	0.2					
10 „	.785	.917	78.0	76.2	1.8	75.5	.92	78.6	80.1	„	0.0					
11 „	.768	.897	78.4	76.4	2.0	75.6	.92	79.0	80.2	„	0.1					
Aug. 25th-Midnight	.755	.884	78.4	76.4	2.0	75.6	.92	78.9	80.1	W	0.3					
1 a. m.	.739	.846	78.5	77.0	1.5	76.4	.94	79.0	80.1	„	0.1					
2 „	.733	.844	78.2	76.8	1.4	76.3	.94	78.6	80.0	W b S	0.2					
3 „	.733	.852	78.2	76.6	1.6	76.1	.93	78.6	80.0	WSW	0.2					
4 „	.735	.840	78.4	77.0	1.4	76.5	.94	78.8	80.0	„	0.1					
5 „	.735	.842	78.2	76.9	1.3	76.4	.94	78.8	80.0	W b S	0.1					
6 „	.748	.834	78.5	77.5	1.0	77.1	.96	79.0	80.0	„	0.2					
7 „	.771	.879	78.6	77.0	1.6	76.4	.93	79.2	79.9	„	0.2					
8 „	.781	.847	80.8	78.6	2.2	77.8	.91	81.5	80.2	„	0.4					
9 „	.797	.891	81.0	78.0	3.0	76.8	.88	81.7	80.4	W	0.2					
10 „	.802	.888	81.0	78.2	2.8	77.1	.89	81.5	80.5	„	0.3					
11 „	.793	.857	82.3	79.2	3.6	77.9	.86	83.0	80.8	„	0.2					
Noon.	.781	.833	84.8	80.0	4.8	78.3	.80	84.0	81.1	„	0.3					
1 p. m.	.763	.819	85.2	80.0	5.2	78.1	.80	84.4	81.4	WSW	0.3	Immeasurable.	None.	None.	None.	None.
2 „	.751	.837	84.8	79.2	5.6	77.1	.79	84.4	81.5	„	0.2					
3 „	.731	.841	83.2	78.2	5.0	76.3	.80	83.0	81.5	„	0.2					
4 „	.727	.826	82.2	78.2	4.0	76.7	.84	82.2	81.3	„	0.1					
5 „	.729	.839	80.3	77.4	2.9	76.3	.88	80.4	81.1	„	0.5					
6 „	.734	.885	79.0	76.0	3.0	74.8	.88	79.5	80.7	„	0.3					
7 „	.743	.874	79.3	76.6	2.7	75.2	.89	79.9	80.6	„	0.8					
8 „	.766	.898	79.4	76.6	2.8	75.5	.88	79.9	80.6	W b N	0.6					
9 „	.783	.908	79.4	76.8	2.6	75.8	.89	79.6	80.6	W b S	0.2					
10 „	.779	.904	79.4	76.8	2.6	75.8	.89	79.6	80.6	SW b W	0.2					
11 „	.773	.935	78.6	75.6	3.0	74.4	.88	79.2	80.4	„	0.3					
Aug. 26th-Midnight	.766	.902	79.0	76.4	2.6	75.4	.89	79.2	80.4	WSW	0.4					
1 a. m.	.747	.869	78.9	76.7	2.2	75.9	.91	79.2	80.3	SW b W	0.2					
2 „	.733	.854	78.8	76.7	2.1	75.9	.91	79.0	80.2	„	0.2					
3 „	.731	.852	78.8	76.7	2.1	75.9	.91	79.2	80.2	„	0.3					
4 „	.736	.843	78.5	77.0	1.5	76.4	.94	79.0	80.2	WSW	0.2					
5 „	.735	.843	78.6	77.0	1.6	76.4	.93	79.2	80.2	„	0.2	0.01				
6 „	.745	.853	78.6	77.0	1.6	76.4	.93	79.2	80.2	„	0.3					
7 „	.764	.877	79.1	77.0	2.1	76.2	.91	79.7	80.2	„	0.4					
8 „	.768	.853	80.2	78.0	2.2	77.2	.91	80.9	80.3	„	0.3					
9 „	.784	.831	82.0	79.4	2.6	78.3	.89	82.5	80.6	„	0.2					
10 „	.786	.872	81.8	78.4	3.4	77.1	.86	82.5	80.8	W b S	0.2					
11 „	.784	.841	83.8	79.6	4.2	78.1	.84	83.6	81.1	„	0.3					
Noon.	.772	.824	84.8	80.0	4.8	78.3	.81	84.6	81.4	„	0.4					
1 p. m.	.752	.810	85.4	80.0	5.4	78.1	.79	84.7	81.7	WSW	0.3		None.	None.	None.	None.
2 „	.737	.791	85.0	80.0	5.0	78.2	.81	84.4	81.8	SW b W	0.2					
3 „	.730	.805	84.2	79.3	4.9	77.5	.84	84.0	81.8	WSW	0.2					
4 „	.728	.821	82.4	78.4	4.0	76.9	.84	82.8	81.6	„	0.2					
5 „	.733	.813	81.7	78.5	3.2	77.3	.87	82.4	81.5	„	0.2					
6 „	.745	.855	80.7	77.5	3.2	76.3	.87	81.3	81.3	„	0.4					
7 „	.756	.949	79.3	75.0	4.3	73.2	.82	79.9	81.0	„	0.2					
8 „	.771	.913	79.6	76.4	3.2	75.1	.87	80.4	81.0	„	0.2					
9 „	.785	.905	79.7	77.0	2.7	75.9	.89	80.5	80.9	„	0.1					
10 „	.782	.909	79.0	76.6	2.4	75.7	.90	79.8	80.7	SW b W	0.1					
11 „	.773	.900	79.0	76.6	2.4	75.7	.90	79.8	80.6	WSW	0.2					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩∪ cumulo-strati; and ≀∩ nimbi.	
8	L	Overcast; a few drops of rain at 0h. 8m.	
6	N	≀≀ scattered throughout; drizzling rain at 1h. 35m.	
6	N	≀≀ scattered about, moving E.	
8	N	Overcast with ≀≀, moving E.	
8	N	Overcast; light drizzle at 4h. 55m.	
8	H	Overcast; light drizzle at 5h. 44m.	
8	H	Overcast; light drizzling rain at 6h. which ceased at 6h. 14m.	
8	H	Overcast; no rain.	
8	H	" "	
8	L	" "	
8	L	" "	
8	L	Overcast; a few stars visible about zth.	
4	L	≀≀ scattered about hor., moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°1 and 84°0.
8	N	Overcast with ≀≀, moving E; a few stars dimly visible.	
8	N	Overcast.	
8	N	"	
8	N	"	
8	H	"	
8	H	Overcast; drizzling rain at 6h. 37m. which ceased at 6h. 40m.	
8	H	Overcast; haze around hor.	
8	H	" " "	
8	L	Overcast; light haze around hor.	
8	L	Overcast.	
8	L	≀≀ scattered throughout, moving E; a few ≀≀ in E, SE, and S; a few ≀ in S.	
7	L	" " " " " " " "	
6	N	≀ and light ≀≀ scattered about, the latter moving E.	
8	N	Overcast ≀≀ and ≀≀, the former moving E.	
8	N	≀≀ scattered throughout, moving E; drops of rain at 3h. 10m. [rain at 4h. 52m.	
8	N	≀≀ and ≀≀ scattered throughout, the former moving E, light passing shower of	
8	H	Overcast with ≀≀, moving ENE; light drizzling rain at the time of observation.	
8	H	≀≀ and ≀≀, scattered throughout, both moving E; haze around hor.	
8	H	Overcast with ≀≀, moving E.	
8	H	Overcast; a few stars visible about zth.	
8	L	" " " "	
8	L	Clouded as before.	
8	L	" "	
8	L	Overcast; a few stars dimly visible in SW.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°1 and 84°0. Daily fall of rain by Osler's Gauge 0.01.
8	N	Overcast.	
8	N	"	
8	N	Overcast; light drops of rain at 3h. 40m.	
8	N	Overcast; light passing shower of rain at 4h. 50m.	
8	H	Overcast; no rain.	
8	H	Overcast; haze around hor.	
8	H	Overcast with ≀≀, moving ENE; haze in hor.	
8	H	" " " " "	
6	L	≀≀ and ≀≀ scattered throughout, the former moving ENE.	
8	L	" " " " " " " " [NE.	
6	L	≀≀ and ≀≀ scattered throughout, the former moving E; ≀ in W, NW, N, and	
8	L	≀≀ scattered throughout, moving E.	
7	C	≀≀ and ≀≀ scattered throughout, the latter moving E.	
8	C	Densely clouded with ≀≀ and ≀≀, the former moving E.	
8	C	" " " " " "	
8	C	" " " " " "	
8	H	" " " " " " [which lasted 3m.	
8	H	Overcast with ≀≀, moving E; haze around hor.; drizzling rain at 6h. 12m.	
8	H	Overcast; no rain.	
8	H	" "	
8	L	Overcast; a few drops of rain 9h. 5m.	
4	L	≀≀ scattered about, moving E. [lasted 4m.	
8	L	Overcast; a few stars dimly visible; light shower of rain at 11h. 20m. which	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Aug.27th-Midnight	29.761	28.901	78°0	76°0	2°0	75°2	0.92	79°2	80°4	SW	0.3					
1 a. m.	.751	.874	78.6	76.6	2.0	75.8	.92	79.4	80.5	WSW	0.3					
2 „	.736	.859	78.6	76.6	2.0	75.8	.92	79.3	80.4	„	0.4					
3 „	.731	.862	78.6	76.4	2.2	75.5	.91	79.4	80.4	„	0.2					
4 „	.731	.858	78.6	76.5	2.1	75.7	.91	79.2	80.3	„	0.4					
5 „	.733	.864	78.6	76.4	2.2	75.5	.91	79.2	80.2	„	0.4					
6 „	.742	.859	78.7	76.6	1.9	76.0	.92	79.4	80.2	SW b W	0.5					
7 „	.755	.875	78.3	76.6	1.7	75.9	.93	79.2	80.2	WSW	0.8	0.03				
8 „	.779	.950	77.0	75.2	1.8	74.1	.92	79.6	80.0	W b S	0 to 1¼					
9 „	.790	.871	79.8	78.0	1.8	77.2	.93	80.4	80.2	SW b W	0.5					
10 „	.791	.858	80.4	78.4	2.0	77.8	.92	81.6	80.5	„	0.4	0.01				
11 „	.792	.847	82.8	79.4	3.4	78.2	.86	83.2	80.8	W b S	0·6					
Noon.	.780	.826	83.9	79.9	4.0	78.5	.84	84.0	81.2	„	0.3		None.	None.	None.	None.
1 p. m.	.765	.841	84.3	79.3	5.0	77.5	.81	84.2	81.4	WSW	0.2					
2 „	.752	.822	84.1	79.4	4.7	77.7	.82	84.2	81.5	„	0.3					
3 „	.732	.819	83.8	78.9	4.9	77.1	.81	84.1	81.6	SW b W	0.5					
4 „	.735	.851	83.0	78.0	5.0	76.1	.80	83.6	81.6	SW	0.3					
5 „	.740	.834	81.7	78.0	3.7	76.8	.88	82.2	81.5	SW b W	0.4					
6 „	.754	.863	80.6	77.5	3.1	76.3	.87	81.4	81.2	„	0.4					
7 „	.771	.894	80.0	77.0	3.0	75.8	.88	80.9	81.0	„	0.3					
8 „	.781	.916	79.7	76.6	3.1	75.4	.87	80.5	81.0	„	0.8					
9 „	.786	.935	79.6	76.2	3.4	74.9	.86	80.5	80.9	„	0.4					
10 „	.790	.906	79.4	77.0	2.4	76.1	.90	80.4	80.8	SW	0.4					
11 „	.785	.920	79.2	76.4	2.8	75.4	.88	80.0	80.7	„	0.5					
Aug.28th-Midnight	.773	.922	78.8	76.0	2.8	74.9	.88	79.4	80.6	WSW	0,8					
1 a. m.	.762	.899	78.1	76.0	2.1	75.3	.91	79.0	80.4	SW b W	0 to2	0.02				
2 „	.761	.901	78.0	76.0	2.0	75.2	.92	79.0	80.4	WSW	0.5					
3 „	.749	.880	78.6	76.4	2.2	75.2	.91	79.6	80.4	„	0.8					
4 „	.751	.876	78.8	76.6	2.2	75.8	.91	79.6	80.4	„	0.6					
5 „	.750	.860	78.8	77.0	1.8	76.3	.92	79.6	80.5	„	0 to1					
6 „	.767	.879	79.0	77.0	2.0	76.2	.92	79.8	80.5	„	0.8					
7 „	.780	.879	78.6	77.2	1.4	76.7	.94	79.6	80.3	„	0.8					
8 „	.801	.909	79.4	77.2	2.2	76.4	.91	80.2	80.3	„	0.8					
9 „	.821	.962	80.2	76.6	3.6	75.2	.85	80.9	80.5	„	0.6					
10 „	.810	.884	80.3	78.3	2.0	77.5	.92	81.2	80.6	„	0 to ¾	0.07				
11 „	.811	.886	81.6	78.6	3.0	77.5	.88	82.4	80.8	W b S	0.6		None.	None.	None.	None.
Noon.	.793	.896	81.8	78.0	3.8	76.5	.85	82.4	81.0	„	0.6					
1 p. m.	.778	.863	82.9	78.7	4.2	77.2	.83	83.0	81.2	WSW	0.5					
2 „	.769	.858	84.4	79.0	5.4	77.0	.79	84.1	81.5	„	0 to 1¼					
3 „	.765	.873	84.6	78.6	6.0	76.4	.77	84.1	81.7	„	¼ to 2¾					
4 „	.761	.860	82.2	78.2	4.0	76.7	.84	82.8	81.5	„	0.4					
5 „	.764	.884	81.6	77.5	4.1	75.9	.84	81.8	81.4	„	0.6					
6 „	.766	.892	80.3	77.0	3.3	75.7	.86	81.2	81.1	W b S	0.6					
7 „	.775	.918	79.7	76.4	3.3	75.1	.86	80.4	81.0	WSW	0.8					
8 „	.788	.945	79.5	76.0	3.5	74.6	.86	80.2	80.9	W b S	0.2					
9 „	.807	.934	79.0	76.6	2.4	75.7	.90	79.7	80.7	WSW	0.6					
10 „	.802	.943	78.8	76.2	2.6	75.2	.89	79.6	80.6	„	0.6					
11 „	.796	.937	78.8	76.2	2.6	75.2	.89	79.6	80.6	„	0.2					
Aug.29th-Midnight	.782	.923	78.8	76.2	2.6	75.2	.89	79.6	80.5	W b S	0.6					
1 a. m.	.767	.893	78.5	76.5	2.0	75.7	.92	79.1	80.5	„	0 to 1½	0.01				
2 „	.753	.882	78.0	76.3	1.7	75.6	.93	78.9	80.3	„	0.6	0.03				
3 „	.752	.886	78.2	76.2	2.0	75.4	.92	78.9	80.3	„	0.5					
4 „	.750	.892	78.2	76.0	2.2	75.1	.92	78.9	80.2	„	0.4					
5 „	.754	.893	78.3	76.1	2.2	75.2	.92	79.1	80.2	„	0.4		None.	None.	None.	None.
6 „	.770	.902	78.3	76.3	2.0	75.5	.92	79.0	80.1	„	0.5					
7 „	.787	.903	78.6	76.8	1.8	76.1	.92	79.5	80.1	„	0.6					
8 „	.800	.897	79.5	77.5	2.0	76.7	.92	80.4	80.2	„	0.6					
9 „	.807	.928	79.8	77.0	2.8	75.9	.88	80.7	80.4	W	0 to 1					
10 „	.816	.919	82.6	78.2	4.4	76.5	.83	82.9	80.8	„	0.6					
11 „	.807	.891	83.2	78.8	4.4	77.2	.83	83.5	81.1	„	0.5					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∿ cirri; ∿ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩ cumulo-strati; and ∿ nimbi.	
5	L	∿ scattered about, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°1 and 83°9. Daily fall of rain by Osler's Gauge 0.06.
4	C	" " "	
4	C	" " "	
6	C	" " "	
6	C	" " "	
8	H	" " " [6h. 32m. which lasted 6m.	
8	H	∿ scattered throughout, moving ENE; ⌣ in E hor.; light shower of rain at	
8	H	Densely clouded; haze around hor.; drizzling rain commenced at 7h. 58m.	
8	H	Overcast with ∿, moving E; rain ceased at 8h. 16m.	
8	L	Overcast; a passing shower of rain at 9h. 32m.	
7	L	Densely clouded; breaks in SE and S.	
7	L	∿ in E and SE; ∿ in W and ∿ scattered throughout, moving E.	
7	L	∿ about zth.; ∿ scattered throughout, moving ENE.	
7	C	" " " " " " "	
8	C	Overcast with ∿, moving ENE.	
8	C	∿ about zth.; otherwise clouded with ∿.	
6	C	" " " " "	
8	H	Overcast with ∿, moving E; haze around hor.	
8	H	Overcast with ∿, moving ENE; haze around hor.	
8	H	Densely clouded with ∿ and ∿, both moving ENE.	
8	H	Overcast with ∿, moving E.	
8	L	" " "	
7	L	Densely clouded with ∿ and ∿, the former moving E.	
8	L	Overcast with ∿, moving E; a few stars dimly visible about zth.	
8	L	Overcast with ∿, moving E; light rain from full hour to 21m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°1 and 83°9. Daily fall of rain by Osler's Gauge 0.07.
8	C	Overcast; drizzling rain at 5h. 54m. which lasted 2m.	
8	C	Overcast; no rain.	
8	C	" "	
8	C	Overcast; fresh breezes of wind at 4h. 20m.	
8	H	Overcast with ∿, moving E.	
8	H	Overcast; a shower of rain at 6h. 22m. which lasted 5m.	
8	H	Overcast with ∿, moving ENE; haze around hor.	
8	H	" " " " " "	
8	L	Overcast with ∿, moving NE; light rain at 9h. 48m. which ceased at 9h. 58m.	
8	L	Overcast with ∿, moving ENE.	
8	L	Overcast with ∿, moving NE; a few ∿ in SW and W.	
8	L	" " " " " " "	
8	C	∿ and ∿ scattered throughout, the former moving E.	
6	C	" " " " " "	
7	C	" " " " " "	
8	C	Overcast with ∿ and ∿, the former moving E.	
8	H	Clouded as before; drizzling rain at 5h. 22m. which lasted 2m.	
8	H	Overcast; haze around hor.	
7	H	Densely clouded with ∿ and ∿.	
7	H	Clouded as before; light drizzle at 8h. 19m.	
7	L	∿ scattered throughout, moving E; a break in SW.	
7	L	" " " " " " "	
7	L	∿ scattered throughout, moving E; a break in W.	
8	L	Overcast; with ∿, moving E; light drizzle at 0h. 54m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°1 and 83°9. Daily fall of rain by Osler's Gauge 0.04.
8	C	Overcast; light rain at 1h. 16m. which lasted 7m.	
8	C	Overcast with ∿.	
6	C	Densely clouded with ∿.	
5	C	∿ scattered about.	
8	H	Overcast; with ∿ and ∿, the former moving E.	
7	H	∿ around hor., ∿ scattered throughout; haze in hor.	
7	H	∿ and ∿ scattered throughout, the latter moving E; haze in hor.	
8	H	Overcast with ∿, moving ENE; drizzling rain at 8h. 15m. which lasted 4m.	
8	L	Overcast with ∩, moving ENE; no rain.	
8	L	" " " "	
8	L	" " " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering one degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Aug. 29th-Noon.	29.791	28.888	83°6	78°6	5°0	76°7	0.81	83°6	81°3	W b S	0.6					
1 p. m.	.766	.851	84.0	79.0	5.0	77.2	.81	84.1	81.5	W	0.6					
2 „	.752	.817	84.7	79.6	5.1	77.6	.80	84.9	81.6	W b N	0.5					
3 „	.733	.860	84.4	78.1	6.3	75.7	.76	84.0	81.6	W	0.5					
4 „	.728	.843	82.9	78.1	4.9	76.1	.81	83.1	81.6	„	0.5					
5 „	.734	.884	80.7	76.5	4.2	74.8	.83	80.4	81.2	WNW	½ to 1½	None.	None.	None.	None.	None.
6 „	.743	.874	80.0	76.8	3.2	75.5	.87	80.8	81.1	W	0.8					
7 „	.756	.894	80.0	76.6	3.4	75.2	.86	80.5	81.0	W b S	0.8					
8 „	.771	.904	79.5	76.6	2.9	75.5	.88	80.0	80.9	WSW	0.6					
9 „	.784	.916	79.0	76.5	2.5	75.5	.90	79.7	80.8	„	0.4					
10 „	.795	.913	78.8	76.8	2.0	76.0	.92	79.6	80.7	SW b W	0.3					
11 „	.787	.920	78.8	76.4	2.4	75.5	.90	79.4	80.5	W b S	0.2					
Aug. 31st-Midnight	.777	.915	78.6	76.2	2.4	75.4	.90	79.4	80.5	W b S	0.3					
1 a. m.	.761	.899	78.6	76.2	2.4	75.4	.90	79.4	80.5	„	0.2					
2 „	.744	.888	78.4	76.0	2.4	75.1	.90	79.1	80.4	„	0.3					
3 „	.741	.875	78.2	76.2	2.0	75.4	.92	78.9	80.3	„	0.5					
4 „	.745	.889	78.4	76.0	2.4	75.1	.90	79.0	80.3	„	0.4					
5 „	.753	.910	78.1	75.6	2.5	74.6	.89	78.9	80.1	W	0.6					
6 „	.774	.924	78.2	75.8	2.4	74.8	.90	79.0	80.1	„	0.6					
7 „	.792	.940	78.7	76.0	2.7	74.9	.89	79.4	80.1	„	0.6					
8 „	.813	.944	80.7	77.0	3.7	75.5	.85	81.3	80.3	„	0.6					
9 „	.829	.971	82.1	77.1	5.0	75.1	.80	82.2	80.6	WSW	0.1					
10 „	.830	.931	82.4	78.2	4.2	76.6	.83	82.7	80.8	W b S	0.2	Immeasurable.				
11 „	.823	.899	83.9	79.2	4.7	77.5	.82	83.6	81.1	W	0.4		None.	None.	None.	None.
Noon.	.810	.887	84.8	79.4	5.4	77.4	.79	84.4	81.5	„	0.4					
1 p. m.	.790	.877	84.2	79.0	5.2	77.1	.80	84.2	81.5	W b N	0.3					
2 „	.778	.956	83.2	76.5	6.7	73.8	.74	82.2	81.6	„	0.2					
3 „	.766	.958	84.6	79.0	5.6	76.9	.79	83.5	81.7	„	0.1					
4 „	.762	.889	84.0	78.0	6.0	75.7	.77	83.4	81.7	WNW	0.5					
5 „	.772	.918	82.1	77.0	5.1	75.0	.80	82.0	81.5	„	0.6					
6 „	.779	.916	80.9	76.9	4.0	75.3	.84	81.2	81.3	„	0.4					
7 „	.786	.930	80.1	76.5	3.6	75.1	.85	80.6	81.1	W b N	0.6					
8 „	.793	.932	79.7	76.5	3.2	75.1	.87	80.2	81.0	„	0.5					
9 „	.808	.945	79.5	76.5	3.0	75.3	.88	80.2	81.0	„	0.6					
10 „	.805	.950	79.5	76.3	3.2	75.0	.87	80.1	81.0	W	0.6					
11 „	.789	.923	79.2	76.5	2.7	75.4	.89	80.0	80.8	„	0.4					
Sept. 1st-Midnight	.769	.886	79.1	76.9	2.2	76.0	.91	79.5	80.6	WNW	0.8					
1 a. m.	.756	.892	79.0	76.4	2.6	75.4	.89	79.4	80.6	„	0.8					
2 „	.747	.870	78.6	76.6	2.0	75.8	.92	79.2	80.6	NW b W	0.6					
3 „	.748	.895	78.6	76.0	2.6	75.0	.90	79.2	80.5	„	0.3					
4 „	.751	.895	78.4	76.0	2.4	75.1	.90	79.0	80.4	WNW	0.5					
5 „	.761	.905	78.4	76.0	2.4	75.1	.90	79.0	80.4	„	0.2					
6 „	.779	.922	78.3	76.0	2.3	75.1	.90	78.9	80.2	W b N	0.0					
7 „	.785	.924	78.9	76.4	2.5	75.4	.90	79.4	80.3	„	0.1					
8 „	.815	.953	80.3	76.7	3.6	75.3	.86	80.6	80.5	„	0.1					
9 „	.823	.899	82.4	78.8	3.6	77.5	.86	82.9	80.8	„	0.5					
10 „	.817	.925	83.0	78.2	4.8	76.4	.81	83.0	81.0	WNW	0.6					
11 „	.808	.925	83.8	78.2	5.6	76.0	.78	84.1	81.3	„	0.5		None.	None.	None.	None.
Noon.	.790	.872	85.2	79.4	5.8	77.3	.78	85.2	81.7	„	0.6					
1 p. m.	.771	.879	85.3	78.8	6.5	76.3	.75	84.9	81.9	„	0.3					
2 „	.761	.877	83.0	78.0	5.0	76.1	.80	82.8	81.8	„	0.4					
3 „	.752	.861	82.4	78.0	4.4	76.3	.83	82.7	81.5	„	0.3					
4 „	.748	.863	82.0	77.6	4.4	76.1	.83	82.2	81.5	„	0.3					
5 „	.749	.879	80.6	77.0	3.6	75.6	.85	80.2	81.4	W b N	0.1					
6 „	.765	.888	80.0	77.0	3.0	75.8	.88	80.2	81.1	WNW	0.1	0.05				
7 „	.777	.911	78.3	76.3	2.0	75.4	.92	78.4	80.7	NW b W	0.4					
8 „	.794	.904	78.1	76.8	1.3	76.3	.94	78.7	80.5	NW b N	0.0	0.01				
9 „	.800	.978	76.5	74.6	1.9	73.8	.92	76.2	80.2	NW	1.0	0.09				
10 „	.801	.919	77.8	76.5	1.3	76.0	.94	78.9	80.2	„	0.4					
11 „	.801	.931	77.1	76.0	1.1	75.6	.95	78.2	80.1	NW b N	0.8	0.16				

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ≀— cirro-strati; ∩— cumulo-strati; and ≀≀ nimbi.	
8	L	Overcast with ∩, moving ENE; no rain.	
8	C	Overcast with ≀≀ and ≀≀, the former moving E.	
6	C	≀≀ around hor.; ≀≀ scattered throughout.	
8	C	" " " " "	
8	C	" " " " "	
8	H	Overcast with ≀≀, moving ENE.	
8	H	Overcast with ≀≀, moving E.	
8	H	" " "	
6	H	≀≀ and ≀≀ scattered throughout, both moving E.	
8	L	≀≀ scattered throughout, moving ENE.	
8	L	" " " "	
6	L	≀≀ scattered about, moving E.	
8	L	Overcast with ≀≀, moving E; a break in SE.	Mean daily Temperature of Ground 20 and 60 inches below its surface, 81°3 and 83°8.
6	C	≀≀ scattered throughout.	
4	C	≀≀ scattered about hor.	
5	C	≀≀ scattered about, moving ENE.	
4	C	≀≀ about hor., in E, SE, moving ENE.	
6	H	≀≀ and ≀≀ scattered throughout, moving E.	
7	H	" " " " "	
7	H	" " " " "	
6	H	≀≀ scattered throughout; a few ≀ in W.	
7	L	≀≀ and ≀≀ scattered throughout, the latter moving E.	
8	L	" " " " "	
7	L	≀≀ scattered throughout; patches of ≀≀ in SE, S, and SW.	
8	L	Overcast with ≀≀, moving E; a few drops of rain at 0h. 27m.	
5	C	≀≀ scattered about.	
8	C	Overcast; drizzling rain at 2h. 4m. which ceased at 2h. 17m.	
6	C	≀≀ scattered throughout.	
7	C	" " "	
8	H	Overcast; haze around hor.	
6	H	≀≀, ≀ and ≀≀ scattered throughout; haze in hor.	
5	H	≀≀ scattered about, moving E.	
4	H	≀≀ around hor.; ≀≀ scattered in S.	
8	H	Overcast with ≀≀ and ≀≀, the former moving E.	
8	H	Overcast with ≀≀, moving E.	
7	H	≀≀ scattered throughout.	
8	H	Overcast with ≀≀ and ≀≀, the former moving E	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°5 and 83°8. Daily fall of rain by Osler's Gauge 0.30.
6	L	≀≀ scattered throughout, moving E.	
3	L	≀≀ scattered in E hem., moving E.	
2	L	≀≀ scattered here and there.	
2	L	" " "	
3	C	≀≀ scattered here and there; a few patches of ≀≀ in NNE.	
6	C	≀≀ and ≀≀ scattered about; linear ≀ in hor., from W to E.	
5	C	≀≀ around hor.; ≀≀ and ≀ scattered about.	
6	C	≀≀ and ≀≀ scattered throughout, the latter moving E.	
8	H	Overcast with ≀≀ and ≀≀.	
8	H	" " "	
7	H	Densely clouded with ≀≀ and ≀≀.	
7	H	" " " "	
8	L	≀≀ scattered throughout, moving E.	
8	L	Overcast with ≀≀, moving ESE; drops of rain at 2h. 17m.	
8	L	Overcast; no rain.	
8	L	Overcast; a light drizzle at 4h. 50m. which lasted 10m.	
8	C	Overcast with ≀≀, moving E; rain ceased at 5h. 10m.	
8	C	Overcast; a few drops of rain at 6h. 21m.	
8	C	Overcast; rain commenced at 7h. 2m. which ceased at 7h. 25m.	
8	C	Overcast; rain commenced at 8h. 9m. which ceased 8h. 25m.; and recommenced	
8	H	Overcast; rain ceased at 9h. 17m. [at 8h. 52m.	
8	H	Overcast; a passing shower of rain at 10h. 19m.; rain commenced at 10h. 25m.	
8	H	*Overcast; no rain. [which ceased at 10h. 30m.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Sept. 2nd-Midnight	29.791	28.952	76°4	75°0	1°4	74°4	0.94	77°2	80°0	NW b N	0.8					
1 a. m.	.783	.976	75.8	74.0	1.8	73.2	.92	76.5	79.8	„	0.5					
2 „	.768	.941	75.4	74.4	1.0	74.0	.96	76.2	79.5	WNW	0.2	0.01				
3 „	.756	.942	75.2	74.0	1.2	73.5	.95	75.7	79.3	„	0.2					
4 „	.752	.933	75.4	74.2	1.2	73.7	.95	75.8	79.2	„	0.3					
5 „	.754	.902	75.2	75.0	0.2	74.9	.99	76.0	79.1	„	0.2	0.20				
6 „	.760	.901	75.6	75.3	0.3	75.2	.99	76.5	79.1	„	0.0	0.02				
7 „	.773	.891	77.0	76.3	0.7	76.0	.97	78.0	79.4	„	0.0					
8 „	.788	.889	78.0	77.0	1.0	76.6	.96	78.6	79.5	„	0.0					
9 „	.792	.919	78.2	76.4	1.8	75.7	.92	78.9	79.6	W b N	0.3					
10 „	.811	.884	80.6	78.4	2.2	77.6	.91	81.4	79.9	„	0.2					
11 „	.799	.870	82.0	78.8	3.2	77.6	.87	82.2	80.4	W	0.2					
Noon.	.782	.826	83.3	79.8	3.5	78.5	.86	83.3	80.6	W b S	0.4		None.	None.	None.	None.
1 p. m.	.773	.849	83.2	79.0	4.2	77.5	.83	83.4	80.9	„	0.2					
2 „	.760	.848	82.8	78.6	4.2	77.1	.83	82.7	81.0	„	0.5					
3 „	.746	.841	81.1	78.0	3.1	76.8	.87	81.5	80.9	„	0.2	0.02				
4 „	.740	.849	80.2	77.4	2.8	76.3	.88	80.8	80.7	„	0.3					
5 „	.742	.886	79.8	76.4	3.4	75.1	.86	80.2	80.6	WSW	0.2					
6 „	.758	.899	79.2	76.3	2.9	75.2	.88	79.8	80.5	„	0.2					
7 „	.777	.897	78.6	76.4	2.2	75.9	.91	79.1	80.4	„	0.1					
8 „	.793	.908	78.9	76.9	2.0	76.1	.92	79.3	80.4	„	0.1					
9 „	.801	.927	78.9	76.6	2.3	75.7	.90	79.5	80.3	„	0.2					
10 „	.796	.938	78.2	76.0	2.2	75.1	.91	79.0	80.1	„	0.2					
11 „	.780	.888	78.6	77.0	1.6	76.4	.93	79.4	80.1	„	0.1					
Sept. 3rd-Midnight	.766	.885	78.6	76.7	1.9	76.0	.92	79.3	80.1	W b S	0.5					
1 a. m.	.748	.916	78.0	75.3	2.7	74.2	.89	78.7	80.0	W	0.5					
2 „	.745	.933	76.8	74.4	2.4	73.4	.90	77.9	79.8	„	0.2					
3 „	.740	.909	76.4	74.8	1.6	74.1	.93	77.1	79.6	„	0.1	0.03				
4 „	.744	.891	77.2	75.6	1.6	75.0	.93	78.0	79.6	„	0.3					
5 „	.748	.892	76.8	74.5	2.3	73.6	.90	77.8	79.5	„	0.4					
6 „	.758	.890	77.3	76.0	1.3	75.5	.94	78.2	79.5	„	0.2					
7 „	.788	.926	77.8	76.0	1.8	75.3	.92	78.8	79.5	„	0.2					
8 „	.818	.965	78.3	75.9	2.4	75.0	.90	79.2	79.6	W b S	0.2					
9 „	.828	.956	79.4	76.7	2.7	75.6	.89	80.2	79.9	W	0.6					
10 „	.833	.961	79.3	76.6	2.7	75.5	.89	80.2	79.9	„	0.3					
11 „	.829	.929	81.5	78.0	3.5	76.6	.87	82.0	80.3	W b S	0.3		None.	None.	None.	None.
Noon.	.815	.878	83.7	79.5	4.2	78.0	.84	84.0	80.6	„	0.5					
1 p. m.	.796	.877	83.6	79.0	4.6	77.3	.82	83.8	80.9	WSW	0.4					
2 „	.780	.869	82.0	78.4	3.6	77.0	.86	82.2	80.9	„	0.2					
3 „	.758	.840	82.2	78.6	3.6	77.3	.86	82.6	80.8	W	0.2					
4 „	.763	.947	79.2	75.2	4.0	73.6	.83	79.7	80.5	SW	0.8					
5 „	.765	.959	78.3	74.7	3.6	73.2	.85	79.1	80.3	„	0.6					
6 „	.770	.936	78.6	75.5	3.1	74.3	.87	79.2	80.2	WSW	0.3					
7 „	.782	.935	78.8	75.9	2.9	74.7	.88	79.3	80.2	„	0.3					
8 „	.796	.970	78.8	75.5	3.3	74.0	.86	79.1	80.1	„	0.2					
9 „	.808	.963	78.6	75.8	2.8	74.7	.88	79.0	80.0	„	0.8					
10 „	.813	.951	77.1	75.8	1.3	75.3	.94	78.3	79.7	W b N	0.2	0.03				
11 „	.808	.951	77.1	75.5	1.6	74.8	.93	78.2	79.5	„	0.3	0.01				
Sept. 4th-Midnight	.790	.905	77.5	76.6	1.0	76.1	.96	78.2	79.5	WNW	0.2					
1 a. m.	.770	.903	77.4	76.0	1.4	75.5	.94	78.6	79.7	W b N	0.2	0.04				
2 „	.758	.894	77.6	76.0	1.6	75.4	.93	78.6	79.6	W	0.1					
3 „	.746	.892	77.8	75.8	2.0	75.0	.92	78.7	79.6	W b S	0.1					
4 „	.746	.892	77.8	75.8	2.0	75.0	.92	78.6	79.6	„	0.2					
5 „	.756	.922	77.2	75.1	2.1	74.3	.91	78.2	79.5	„	0.1		None.	None.	None.	None.
6 „	.762	.913	77.6	75.6	2.0	74.9	.92	78.4	79.5	W	0.1					
7 „	.772	.890	77.8	76.5	1.3	76.0	.94	78.4	79.5	W b N	0.1	0.01				
8 „	.791	.895	79.8	77.4	2.4	76.5	.90	80.7	79.9	W b S	0.1					
9 „	.804	.888	82.0	78.5	3.5	77.2	.86	82.2	80.3	„	0.2					
10 „	.806	.890	82.0	78.5	3.5	77.2	.86	82.2	80.3	„	0.3	0.02				
11 „	.805	.896	82.2	78.4	3.8	76.9	.85	82.9	80.5	„	0.3					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: Ci cirri; Ci cirro-cumuli; Cu cumuli; Cs cirro-strati; Cu-s cumulo-strati; and Ni nimbi.	
8	H	Overcast with Ci and Ni, the former moving E; rain and wind commenced	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°5 and 83°8. Daily fall of rain by Osler's Gauge 0.27.
8	L	Overcast with Ni, moving ESE; rain ceased at 1h. 31m. [at 12h. 17m.	
8	L	Overcast; rain commenced at 2h. 4m., and ceased at 2h. 43m.	
8	L	Overcast with Ni, moving E; no rain.	
6	L	Ci scattered throughout, except about zth.; rain commenced at 4h. 30m.	
8	C	Overcast; rain ceased at 5h. 36m.	
8	C	Overcast; no rain.	
8	C	" "	
8	C	" "	
8	H	Overcast; drizzling rain at 9h. which ceased at 9h. 6m.	
8	H	Overcast; no rain.	
7	H	Densely clouded with Ni.	
6	H	Ci scattered throughout.	
7	L	Ci scattered throughout; a few Cs in zth.	
8	L	Overcast with Ni; light rain at 2h. 4m. which lasted 7m.	
8	L	Overcast; no rain.	
8	L	" "	
8	C	" "	
8	C	Overcast; light drizzling rain at 6h. 20m.	
8	C	Overcast; no rain.	
8	C	" "	
8	H	Overcast; drizzling rain at 9h. 12m. which ceased at 9h. 25m.	
8	H	Overcast; no rain.	
8	H	" "	
8	H	Overcast in two strata with Ni, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°5 and 83°8. Daily fall of rain by Osler's Gauge 0.07.
8	L	Overcast.	
8	L	Overcast; light rain at 2h. 20m. which lasted 8m.	
8	L	Overcast; no rain.	
8	L	" "	
8	C	" "	
8	C	Overcast with Ni, moving ENE; a few drops of rain at 6h. 13m.	
8	C	Overcast; a few drops of rain at the time of observation.	
8	C	Overcast with Ni, moving E; light rain at 8h. 41m. which lasted 4m.	
8	H	Overcast; no rain.	
8	H	" "	
8	H	" "	
7	H	Densely clouded with Ni, moving E.	
8	L	Ci around hor.; otherwise clouded with Cs and Cu.	
8	L	Overcast with Ni and Cu; a few drops of rain at 2h. 21m.	
8	L	Overcast; a passing shower of rain at 3h. 27m.	
8	L	Overcast; no rain.	
8	C	" "	
8	C	" "	
8	C	" "	
8	C	Ci around hor.; Cu scattered throughout.	
8	H	Overcast with Ni; rain commenced at full hour and ceased at 9h. 30m.	
8	H	Overcast; light rain at 10h. 20m. which lasted 10m.	
7	H	Ci scattered throughout.	
8	H	Clouded in two strata with lower stratum, moving E; light rain at 0h. 44m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°3 and 83°6. Daily fall of rain by Osler's Gauge 0.06.
8	L	Clouded as before but no rain. [which lasted 8m.	
8	L	Overcast; a few drops of rain at 2h. 17m.	
8	L	Overcast; no rain.	
8	L	" "	
6	C	Ci around hor.; Cs scattered throughout.	
8	C	Overcast with Ni; a passing shower of rain at 6h. 30m.	
8	C	Overcast; no rain.	
7	C	Densely clouded.	
6	H	Densely clouded; light rain at 9h. 14m. which lasted 3m.	
6	H	Ci and Cu scattered throughout; a few Cs in S.	
8	H	Overcast with Ni.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Sept. 4th-Noon.	29.786	28.902	83°0	78°0	5°0	76°1	0.80	82°9	80°7	WSW	0.5					
1 p. m.	.772	.842	84.1	79.4	4.7	77.1	.82	84.0	80.9	„	0.3					
2 „	.753	.883	81.4	77.2	4.2	75.6	.83	81.2	80.9	„	0.3					
3 „	.736	.851	80.8	77.4	3.4	76.1	.86	81.0	80.7	„	0.4					
4 „	.736	.828	81.6	78.2	3.4	76.9	.86	82.0	80.7	W b S	0.1					
5 „	.750	.883	80.9	77.0	3.9	75.5	.83	80.9	80.8	„	0.1	None.	None.	None.	None.	None.
6 „	.764	.907	79.7	76.4	3.3	75.1	.86	80.1	80.5	„	0.1					
7 „	.785	.921	79.2	76.5	2.7	75.4	.89	79.8	80.4	„	0.1					
8 „	.799	.928	78.4	76.4	2.0	75.6	.92	79.0	80.2	„	0.0					
9 „	.809	.936	78.2	76.4	1.8	75.7	.92	79.0	80.2	„	0.1					
10 „	.809	.935	78.1	76.4	1.7	75.7	.93	78.8	80.2	„	0.2					
11 „	.802	.941	77.9	76.0	1.9	75.2	.92	78.6	80.1	„	0.1					
Sept. 5th-Midnight	.787	.903	77.2	76.4	0.8	76.1	.97	78.2	80.0	W b S	0.1	0.15				
1 a. m.	.762	.880	77.4	76.4	1.0	76.0	.96	78.4	79.8	„	0.1					
2 „	.743	.850	77.8	76.8	1.0	76.4	.95	78.5	79.7	„	0.1					
3 „	.737	.851	77.8	76.6	1.2	76.1	.95	78.6	79.8	„	0.3					
4 „	.738	.913	76.2	74.6	1.6	73.9	.93	77.0	79.5	W b N	0.1	0.01				
5 „	.742	.881	76.9	75.8	1.1	75.2	.95	78.1	79.5	„	0.1					
6 „	.761	.901	77.0	75.8	1.2	75.2	.95	78.1	79.5	„	0.0					
7 „	.772	.896	77.6	76.3	1.3	75.8	.94	78.3	79.5	„	0.0					
8 „	.792	.894	78.8	77.2	1.6	76.6	.92	79.5	79.8	„	0.0					
9 „	.796	.884	79.3	77.7	1.6	77.1	.93	80.4	79.8	W	0.2					
10 „	.805	.905	80.8	77.8	3.0	76.6	.88	81.5	80.2	„	0.2					
11 „	.803	.841	83.2	79.9	3.3	78.7	.87	83.3	80.5	„	0.2					
Noon.	.791	.913	81.8	77.5	4.3	75.9	.83	82.6	80.5	W b S	0.3	0.03	None.	None.	None.	None.
1 p. m.	.770	.922	83.4	77.2	6.2	74.8	.76	82.9	80.8	WSW	0.3					
2 „	.754	.929	82.6	76.4	6.2	73.9	.76	82.7	80.8	SW b W	0.4					
3 „	.735	.911	82.0	76.2	5.8	73.9	.77	82.2	80.7	„	0.1					
4 „	.739	.865	83.9	78.0	5.9	75.7	.77	83.2	81.0	WSW	0.3					
5 „	.746	.880	81.7	77.2	4.5	75.4	.82	81.5	80.9	„	0.1					
6 „	.758	.872	79.2	77.0	2.2	76.1	.91	79.1	80.6	„	0.2	0.10				
7 „	.765	.921	77.3	75.4	1.9	74.6	.93	77.2	80.2	W	0.0	0.16				
8 „	.781	.958	77.4	74.9	2.5	73.8	.89	78.1	80.0	„	0.2					
9 „	.795	.973	77.2	74.8	2.4	73.8	.90	77.9	79.9	„	0.3					
10 „	.796	.984	76.8	74.4	2.4	73.4	.90	77.1	79.7	„	0.3					
11 „	.792	.960	77.0	75.0	2.0	74.2	.91	77.6	79.6	W b N	0.1					
Sept. 7th-Midnight	.756	.932	76.0	74.5	1.5	73.9	.93	77.0	79.4	W b N	0.0					
1 a. m.	.742	.869	76.8	76.0	0.8	75.7	.97	78.0	79.1	„	0.1					
2 „	.736	.860	77.0	76.0	1.0	75.6	.96	78.0	79.3	„	0.0					
3 „	.728	.838	77.4	76.6	0.8	76.3	.97	78.2	79.3	„	0.1					
4 „	.723	.833	77.4	76.6	0.8	76.3	.97	78.4	79.3	WNW	0.1					
5 „	.733	.838	77.0	76.6	0.4	76.5	.98	78.2	79.3	W b S	0.1					
6 „	.743	.864	77.0	76.2	0.8	75.9	.97	78.2	79.3	S b E	0.1					
7 „	.765	.894	77.0	76.0	1.0	75.6	.96	78.2	79.3	„	0.0					
8 „	.789	.907	77.8	76.5	1.3	76.0	.94	78.7	79.4	SW	0.0					
9 „	.795	.867	79.0	78.0	1.0	77.6	.96	80.0	79.6	„	0.0					
10 „	.798	.857	81.6	79.0	2.6	78.0	.89	82.2	80.0	„	0.2					
11 „	.793	.864	83.1	79.1	4.0	77.6	.84	83.2	80.3	„	0.2					
Noon.	.778	.854	83.2	79.0	4.2	77.5	.83	83.0	80.5	„	0.2					
1 p. m.	.762	.867	82.0	78.0	4.0	76.5	.84	82.2	80.5	NW b W	0.0		None.	None.	None.	None.
2 „	.740	.814	83.0	79.0	4.0	77.5	.84	83.2	80.7	NW	0.0					
3 „	.724	.771	83.6	79.8	3.8	78.4	.85	83.5	80.9	„	0.0					
4 „	.715	.859	81.2	76.8	4.4	75.1	.82	81.7	80.8	W b S	0.2					
5 „	.715	.890	81.2	76.0	5.2	73.9	.79	81.5	80.8	WSW	0.0					
6 „	.730	.908	79.7	75.5	4.2	73.8	.83	80.2	80.5	„	0.0					
7 „	.754	.909	79.4	76.0	3.4	74.7	.86	80.1	80.4	„	0.0					
8 „	.775	.903	79.4	76.7	2.7	75.6	.89	80.0	80.3	„	0.0					
9 „	.778	.902	79.3	76.8	2.5	75.8	.90	80.0	80.2	„	0.0					
10 „	.780	.930	77.1	75.5	1.6	75.2	.93	79.6	79.9	W b N	0.0	0.02				
11 „	.770	.938	77.0	75.0	2.0	74.2	.91	78.3	79.8	NW b W	0.2	0.02				

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ⌐i cirri; ∩i ciro-cumuli; ∩i cumuli; ⌐i cirro-strati; ∩i cumulo-strati; and ∩i nimbi.	
6	H	Densely clouded with ∩i and ∩i, the former moving E.	
7	L	" " " " " "	
8	L	Overcast; a shower of rain at full hour.	
8	L	Overcast; no rain.	
8	L	" "	
7	C	∩i scattered throughout; a few ⌐i in E.	
6	C	∩i and ⌐i scattered throughout.	
8	C	Overcast; a light drizzle at 7h. 4m.	
3	C	∩i around hor.; a few ∩i about 2th.	
3	H	∩i scattered around hor.	
6	H	∩i and ∩i scattered throughout, the former moving E.	
4	H	∩i scattered about; light rain at 7h. 30m. which lasted 12m.	
7	H	Densely clouded with ∩i, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°3 and 83°6. Daily fall of rain by Osler's Gauge 0.45.
7	L	" " " "	
8	L	" " " "	
6	L	∩i scattered throughout, except in E; light rain at 3h. 7m. and at 3h. 41m.	
8	L	Overcast with ∩i, moving E.	
5	C	∩i around hor. and SW, moving ENE; ∩i scattered throughout.	
8	C	Overcast with ∩i.	
6	C	∩i scattered throughout; ∩i in NW, N, NE, and SE.	
8	C	Overcast with ∩i, moving E.	
8	H	" " "	
8	H	" " " [which lasted 6m.	
7	H	Densely clouded with ∩i and ∩i, the former moving E; light rain at 11h. 19m.	
6	H	Densely clouded; no rain.	
6	L	∩i scattered throughout, except in NE, E, and SE.	
8	L	Overcast with ∩i, moving ENE.	
8	L	" " " "	
3	L	∩i around hor.; ∩i above NE hor.	
6	C	∩i and ∩i scattered throughout; drizzling rain at 5h. 54m.	
8	C	Overcast in two strata; rain ceased at 6h. 39m.	
8	C	Overcast with ∩i, moving ENE.	
8	C	" " " "	
8	C	Overcast with ∩i, moving E.	
8	C	" " "	
8	C	" " "	
8	H	Overcast with ∩i, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°2 and 83°4. Daily fall of rain by Osler's Gauge 0.04.
8	L	" " "	
8	L	" " "	
8	L	Overcast with ∩i, moving ENE.	
8	L	Overcast with ∩i, moving E; a few stars visible in SE.	
8	C	Overcast with ∩i and ∩i, the former moving E.	
8	C	" " " " " "	
8	C	Overcast in two strata with ∩i, moving ENE.	
8	C	" " " " "	
7	H	Densely clouded; with ∩i, moving E.	
5	H	∩i scattered about.	
5	H	" "	
8	H	Densely clouded; drizzling rain at 0h. 5m.	
8	L	Overcast.	
8	L	"	
8	L	"	
7	L	∩i scattered throughout; breaks in SW and W.	
7	C	" " " " "	
8	C	Overcast.	
8	C	"	
8	C	Overcast; a few stars visible in E hem.	
8	H	Overcast; rain commenced at 9h. 14m. and ceased at 9h. 28m.	
8	H	Overcast; a shower of rain at 10h. 28m. which lasted 4m.	
8	H	Overcast; no rain.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 feet in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in seconds between the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Sept. 8th-Midnight	29.762	28.900	77°1	75°8	1°3	75°3	0.94	78°2	79°7	NE	0.0					
1 a. m.	.749	.889	76.6	75.6	1.0	75.2	.96	78.7	79.5	ESE	0.1					
2 „	.733	.871	76.4	75.6	0.8	75.3	.97	77.6	79.5	SE b E	1.2					
3 „	.732	.886	76.1	75.1	1.0	74.7	.96	77.6	79.4	S b E	0.2					
4 „	.739	.907	75.6	74.6	1.0	74.2	.96	76.8	79.3	SW	0·1					
5 „	.751	.904	75.6	75.0	0.6	74.7	.97	76.8	79.2	„	0·1	0.01				
6 „	.763	.910	75.8	75.2	0.6	75.0	.97	76.6	79.0	SW b S	0·2					
7 „	.783	.900	76.9	76.3	0.6	76.0	.97	78.0	79.0	SW b W	0·0					
8 „	.801	.941	78.0	76.0	2.0	75.2	.92	78.3	79.4	SW	0.0					
9 „	.811	.924	78.7	76.9	1.8	76.2	.92	79.2	79.5	W	0.3					
10 „	.818	.949	80.7	77.0	3.7	75.5	.85	80.2	79.5	WNW	0·2					
11 „	.815	.929	80.3	77.3	3.0	76.1	.88	81.2	79.8	NNE	0·3	0.01	None.	None.	None.	None.
Noon.	.799	.921	81.4	77.4	4.0	75.9	.84	81.7	80.0	„	0·2					
1 p. m.	.777	.925	80.1	76.4	3.7	74.9	.85	81.0	80.0	NW	0.4					
2 „	.760	.931	80.8	76.0	4.8	74.1	.81	81.2	80.1	NW b W	0·3					
3 „	.741	.916	80.4	75.8	4.6	73.9	.82	80.8	80.2	NW	0·2					
4 „	.736	.956	79.3	74.3	5.0	72.2	.80	78.5	80.2	„	0·2					
5 „	.744	.849	78.7	77.1	1.6	76.5	.93	79.1	80.1	NW b W	0.0	0.04				
6 „	.767	.879	79.0	77.0	2.0	76.2	.92	79.2	80.0	„	0.0					
7 „	.791	.921	78.5	76.4	2.1	75.6	.91	79.0	79.9	„	0.0					
8 „	.801	.945	78.4	76.0	2.4	75.1	.90	78.9	79.8	„	0.0					
9 „	.809	.947	77.8	76.0	1.8	75.3	.92	78.7	79.6	WNW	0.2					
10 „	.801	.997	76.7	74.2	2.5	73.1	.89	77.1	79.3	NW b N	0.4	0.05				
11 „	.796	.995	76.4	74.0	2.4	73.0	.90	77.0	79.2	NW	0.0					
Sept. 9th-Midnight	.789	.938	77.0	75.5	1.5	74.9	.94	78.0	79.2	NW	0.2					
1 a. m.	.771	.921	76.8	75.4	1.4	74.8	.94	77.5	79.1	NW b W	0.3					
2 „	.765	.896	77.2	76.0	1.2	75.5	.95	78.6	79.2	„	0.1					
3 „	.757	.881	77.6	76.3	1.3	75.8	.94	78.2	79.3	„	0.3					
4 „	.761	.922	77.8	75.4	2.4	74.4	.90	78.5	79.3	„	0.2					
5 „	.768	.901	77.4	76.0	1.4	75.5	.94	78.2	79.3	„	0.1					
6 „	.776	.905	77.0	76.0	1.0	75.6	.96	77.8	79.2	„	0.1					
7 „	.792	.912	77.6	76.4	1.2	75.9	.95	78.2	79.2	„	0.1					
8 „	.807	.943	76.9	75.8	1.1	75.4	.95	77.7	79.1	NW	0.1	0.13				
9 „	.814	.905	80.0	77.8	2.2	76.9	.90	80.5	79.5	NW b N	0.2					
10 „	.821	.893	79.7	78.2	1.5	77.6	.94	80.7	79.6	NW b W	0.6					
11 „	.804	.953	78.8	76.0	2.8	74.9	.88	79.9	79.5	NW	0.4		None.	None.	None.	None.
Noon.	.790	.880	80.6	78.0	2.6	77.0	.89	81.0	79.8	N b E	0.2					
1 p. m.	.767	.876	80.6	77.5	3.1	76.3	.87	81.0	80.0	W	0.3					
2 „	.756	.848	81.9	78.3	3.6	76.9	.86	82.4	80.3	W b S	0.3					
3 „	.738	.868	80.6	77.0	3.6	75.6	.86	80.6	80.2	WSW	0.2					
4 „	.738	.879	80.2	76.6	3.6	75.2	.86	80.7	80.1	W	0.2					
5 „	.747	.911	79.4	76.5	2.9	74.3	.88	80.0	80.0	W b S	0.1					
6 „	.763	.965	77.7	74.3	3.4	72.9	.89	77.2	79.8	WSW	0.0	0.04				
7 „	.777	.913	78.0	76.1	1.9	75.4	.92	78.6	79.7	W b S	0.0					
8 „	.782	.928	78.2	75.9	2.3	75.0	.90	78.8	79.7	WSW	0.0					
9 „	.792	.936	78.4	76.0	2.4	75.1	.90	79.4	79.7	SW b W	0.1					
10 „	.793	.944	77.2	75.5	1.7	74.8	.93	78.5	79.5	„	0.0					
11 „	.785	.916	77.2	76.0	1.2	75.5	.95	78.2	79.5	SW	0.2					
Sept 10th-Midnight	.767	.925	76.1	75.0	1.1	74.6	.95	77.0	79.3	SW	0.2	0.16				
1 a. m.	.753	.906	75.6	75.0	0.6	74.7	.97	76.4	79.1	SW b S	0.0	0.11				
2 „	.741	.892	76.2	75.2	1.0	74.8	.96	77.2	79.1	„	0.6					
3 „	.734	.889	76.6	75.2	1.4	74.7	.94	77.2	79.1	SW	0.6					
4 „	.729	.924	76.0	74.0	2.0	73.2	.91	77.0	79.0	WSW	0.2					
5 „	.742	.903	76.4	75.0	1.4	74.4	.94	77.4	78.9	„	0.1		None.	None.	None.	None.
6 „	.756	.903	76.9	75.5	1.4	75.0	.94	77.8	79.0	„	.01					
7 „	.773	.940	76.9	75.0	1.9	74.2	.92	77.2	79.0	SW	0.1					
8 „	.788	.959	78.0	75.2	2.8	74.1	.88	78.6	79.1	„	0.2					
9 „	.798	.918	79.7	77.0	2.7	75.9	.89	80.0	79.5	SSW	0.2					
10 „	.798	.945	78.6	76.0	2.6	75.0	.89	78.3	79.5	WSW	0.2	0.11				
11 „	.793	.936	78.3	76.0	2.3	75.1	.90	78.9	79.5	„	0.2					

Amount of Clouds 0—8.	Observerg.	State of the Weather. Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩∪ cumulo-strati; and ≀∩ nimbi.	Remarks.
8	H	Overcast with ≀∩, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°2 and 83°6. Daily fall of rain by Osler's Gauge 0.08. On this day the Wind blew in a direct circular motion.
7	L	Densely clouded with ≀∩, moving ENE.	
7	L	Densely clouded; a few drops of rain at 2h. 32m.	
8	L	Overcast with ≀∩, moving E; drops of rain falling from 3h. 32m.	
8	L	Overcast; light rain at 4h. 12m. which ceased at 4h. 30m.	
8	C	Overcast; no rain.	
8	C	" "	
8	C	" "	
8	C	Overcast; a passing shower of rain at 8h. 4m.	
8	H	Overcast; no rain.	
8	H	Overcast; light rain at 10h. 5m. which lasted 7m.	
8	H	Overcast; no rain.	
8	H	Overcast; light rain at 0h. 5m. which lasted 5m.	
8	L	Overcast; no rain.	
8	L	" "	
8	L	" "	
8	L	Overcast; light rain at 4h. 32m. which ceased at 4h. 45m.	
8	C	Overcast; no rain.	
8	C	" "	
8	C	" "	
8	C	" "	
8	H	Overcast; light rain at 9h. 6m. which lasted 11m.	
8	H	Overcast; no rain.	
8	H	" "	
8	H	Overcast in two strata with ≀∩, moving E; drizzling rain at 0h. 12m. which lasted 5m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°3 and 83°6. Daily fall of rain by Osler's Gauge 0.17.
8	L	Overcast; a few drops of rain at 1h. 36m.	
8	L	Overcast with ≀∩, moving ESE.	
8	L	Overcast with ≀∩, moving SE; a few ≀∩ about 2th.	
8	L	Overcast with ≀∩, moving E; a passing shower of rain at 4h. 17m.	
8	C	Overcast; a light drizzle at 5h. 31m.	
8	C	Overcast; no rain.	
8	C	Overcast; rain commenced at 7h. 32m. and ceased at 7h. 54m.	
8	C	Overcast; no rain.	
8	H	Overcast; rain commenced at 9h. 32m. and ceased at 9h. 42m.	
8	H	Overcast; no rain.	
8	H	" "	
8	H	" "	
8	L	" "	
8	L	" "	
8	L	Overcast with ≀∩, moving ESE.	
8	L	Overcast; a few drops of rain at 4h. 32m.	
8	C	Overcast; rain commenced at 5h. 40m.	
8	C	Overcast with ≀∩, moving E; rain ceased at 6h. 5m.	
8	C	Overcast; no rain.	
6	C	" "	
8	H	Overcast; drizzling at full hour which ceased at 9h. 12m.	
8	H	Overcast; no rain.	
8	H	Overcast; light rain commenced at 11h. 37m.	
8	H	Overcast in two strata with ≀∩, moving E; rain ceased at 0h. 55m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°1 and 83°5. Daily fall of rain by Osler's Gauge 0.62. Daily range of Barometer on this day was 0.069, least during the month.
8	L	Overcast with ≀∩, moving E.	
8	L	Overcast.	
8	L	"	
8	L	"	
8	C	"	
8	C	"	
8	C	"	
8	C	"	
8	H	Overcast; light rain at 9h. 50m. which lasted 9m.	
8	H	Overcast; drizzling rain at 10h. 40m. which lasted 3m.	
8	H	Overcast; no rain.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in seconds after same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Sept. 10th–Noon.	29.777	28.940	78.3	75°5	2°8	74°4	0.88	78°8	79°4	SSW	0.3					
1 p. m.	.755	.912	76.0	75.0	1.0	74.6	.96	76.3	79.0	W b S	0.2	0.19				
2 „	.745	.908	78.4	75.4	3.0	74.2	.87	78.8	79.4	W	0.1					
3 „	.735	.871	78.4	76.2	2.2	75.4	.91	79.0	79.4	„	0.0					
4 „	.734	.852	78.5	76.7	1.8	76.0	.92	79.1	79.4	W b S	0.0					
5 „	.743	.897	78.5	75.8	2.7	74.7	.89	78.9	79.5	„	0.0					
6 „	.750	.893	77.9	75.9	2.0	75.1	.92	78.3	79.5	„	0.3		None.	None.	None.	None.
7 „	.774	.933	76.2	75.0	1.2	74.5	.95	76.9	79.0	„	0.1	0.03				
8 „	.788	.945	76.0	75.0	1.0	74.6	.96	76.8	79.0	W	0.0					
9 „	.791	.942	76.2	75.2	1.0	74.8	.96	76.9	79.0	„	0.0					
10 „	.784	.935	76.2	75.2	1.0	74.8	.96	76.8	79.0	„	0.0					
11 „	.757	.881	76.6	76.0	0.6	75.8	.97	77.2	79.0	„	0.0					
Sept 11th–Midnight	.744	.917	75°8	74.5	1.3	74.0	.94	76.2	78.9	W	0.0	0.07				
1 a. m.	.734	.900	75.4	74.6	0.8	74.3	.97	76.0	78.7	„	0.1	0.06				
2 „	.731	.883	76.6	75.3	1.3	74.8	.94	77.2	78.8	„	0.3					
3 „	.728	.896	77.0	75.0	2.0	74.2	.91	77.6	78.8	W b S	0.2					
4 „	.731	.893	77.2	75.2	2.0	74.4	.91	77.7	78.8	„	0.2					
5 „	.741	.942	76.5	74.0	2.5	73.0	.89	76.8	78.7	„	0.1					
6 „	.756	.917	76.8	75.2	1.6	74.4	.93	77.2	78.7	„	0.1					
7 „	.773	.912	77.2	75.8	1.4	75.2	.94	77.9	78.8	WSW	0.1	0.05				
8 „	.797	.909	79.0	77.0	2.0	76.2	.92	79.6	79.1	SW b W	0.2					
9 „	.801	.903	81.0	77.8	3.2	76.6	.87	81.0	79.5	„	0.2					
10 „	.798	.900	81.8	78.0	3.8	76.6	.85	81.8	79.7	„	0.3					
11 „	.795	.891	83.1	78.5	4.6	76.8	.82	82.9	80.0	„	0.2					
Noon.	.783	.885	83.7	78.5	5.2	75.8	.80	83.3	80.3	„	0.2		None.	None.	None.	None.
1 p. m.	.757	.864	83.3	78.3	5.0	76.4	.81	83.4	80.4	„	0.2					
2 „	.736	.848	83.4	78.2	5.2	76.2	.80	82.8	80.6	„	0.1					
3 „	.724	.831	82.2	78.0	4.2	76.4	.83	82.6	80.5	SW	0.2					
4 „	.725	.855	82.8	77.6	5.2	75.6	.80	82.8	80.8	SW b W	0.2					
5 „	.736	.889	80.6	76.4	4.2	74.7	.83	80.8	80.5	„	0.2					
6 „	.738	.900	78.6	75.6	3.0	74.4	.88	78.8	80.1	WSW	0.1					
7 „	.743	.904	78.5	75.6	2.9	74.4	.88	79.0	80.0	W b S	0.1					
8 „	.744	.935	77.7	74.6	3.1	73.3	.87	78.3	79.8	SW b W	0.0					
9 „	.758	.951	77.6	74.5	3.1	73.2	.87	78.2	79.7	„	0.0					
10 „	.768	.942	77.5	75.0	2.5	74.0	.89	78.1	79.6	„	0.0					
11 „	.762	.933	77.3	75.0	2.3	74.1	.90	77.7	79.5	„	0.2	0.01				
Sept 12th–Midnight	.756	.945	77.5	74.6	2.9	73.4	.88	77.6	79.5	S b W	0.4					
1 a. m.	.746	.912	77.6	75.2	2.4	74.3	.90	78.0	79.4	„	0.3					
2 „	.742	.924	77.6	74.8	2.8	73.6	.88	78.0	79.4	SSW	0.3					
3 „	.732	.916	76.4	74.4	2.0	73.6	.91	77.0	79.1	W b S	0.2					
4 „	.738	.917	76.6	74.6	2.0	73.8	.91	77.4	79.1	WSW	0.5	0.03				
5 „	.747	.909	77.2	75.2	2.0	74.4	.91	77.8	79.1	SSW	0.4	0.01				
6 „	.766	.942	77.1	74.8	2.3	73.9	.90	77.5	79.0	S	0.5					
7 „	.786	.928	77.4	75.8	1.6	75.1	.93	78.1	79.0	„	0.3					
8 „	.804	.942	78.2	76.1	2.1	75.3	.91	78.8	79.2	S b W	0.1					
9 „	.812	.926	79.2	77.0	2.2	76.1	.91	79.9	79.4	SW	0.2					
10 „	.819	.894	81.2	78.5	2.7	77.5	.89	81.4	79.7	SSW	0.3					
11 „	.814	.915	83.1	78.4	4.7	76.6	.82	83.0	80.2	S	0.6					
Noon.	.797	.879	83.7	79.0	4.7	77.3	.82	83.6	80.4	SSW	0.4		None.	None.	None.	None.
1 p. m.	.769	.882	84.2	78.4	5.8	76.2	.78	84.0	80.6	SW b S	0.4					
2 „	.755	.849	83.3	78.6	4.7	76.8	.82	83.5	80.6	„	0.3					
3 „	.755	.846	83.8	78.8	5.0	76.9	.81	83.4	80.7	„	0.3					
4 „	.755	.892	82.0	77.2	4.8	75.3	.81	81.8	80.7	„	0.4					
5 „	.766	.906	79.4	76.4	3.0	75.2	.88	79.8	80.4	SW	0.4					
6 „	.777	.958	78.2	75.0	3.2	74.7	.87	79.0	80.1	„	0.3					
7 „	.789	.973	77.4	74.7	2.7	73.6	.89	78.2	80.0	„	0.4					
8 „	.808	29.003	77.4	74.4	3.0	73.2	.87	77.9	79.8	„	0.3					
9 „	.830	.000	77.2	75.0	2.2	74.1	.91	77.9	79.7	SSW	0.2					
10 „	.830	.023	77.2	74.4	2.8	73.2	.88	77.9	79.5	S b W	0.4					
11 „	.825	.013	76.8	74.4	2.4	73.4	.90	77.0	79.5	„	0.2	0.13				

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ⌐i cirri; ⌐i cirro-cumuli; ⌐i cumuli; ⌐i cirro-strati; ⌐i cumulo-strati; and ⌐i nimbi.	
8	H	Overcast; rain commenced at 0h. 10m. and ceased at 56m.	
8	L	Overcast; no rain.	
8	L	" "	
8	L	Overcast; light rain at 3h. 14m. which ceased at 3h. 20m.	
8	L	Overcast; no rain.	
8	C	Overcast; a light drizzle at 5h. 53m.	
8	C	Overcast; light rain at 6h. 14m. which lasted 15m. and rain at 6h. 51m. which lasted 3m.	
8	C	Overcast; a light drizzle at 7h. 15m.	
8	C	Overcast; no rain.	
8	H	Overcast; a few stars dimly visible about 2th.	
8	H	Overcast; a light drizzle at 10h. 42m.	
8	H	Overcast; light showers of rain at 11h. 14m., 11h. 20m., and 11h. 42m.	
7	H	Densely clouded with ⌐i, moving E; rain commenced at 12h. 12m. and ceased at 12h. 25m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 83°4. Daily fall of rain by Osler's Gauge 0.23.
8	L	Overcast; no rain.	
8	L	" "	
8	L	" "	
7	L	Densely clouded; a passing shower of rain at 4h. 57m.	
6	C	Densely clouded; no rain.	
6	C	Densely clouded; light rain at 6h. 13m. which lasted 5m.	
8	C	Overcast with ⌐i, ⌐i, and ⌐i.	
5	C	⌐i and ⌐i scattered about, the former moving ENE.	
6	H	" " " " " "	
5	H	⌐i around hor.; ⌐i scattered about.	
6	H	Densely clouded with ⌐i, moving E.	
7	H	⌐i and ⌐i scattered throughout, both moving E.	
7	L	⌐i around hor., moving ENE; ⌐i and ⌐i scattered throughout.	
7	L	⌐i scattered throughout, moving E; ⌐i and ⌐i in S and SW.	
6	L	⌐i and ⌐i scattered throughout, the former moving E.	
6	L	⌐i around hor.; ⌐i scattered throughout.	
8	C	Overcast with ⌐i, moving E; light rain at 5h. 2m. which lasted 8m.	
8	C	Overcast; no rain.	
4	C	⌐i scattered around hor.	
4	C	" " "	
4	H	" " "	
6	H	⌐i scattered throughout, moving E; light rain at 10h. 35m which lasted 5m.	
8	H	Overcast; no rain.	
5	H	⌐i scattered about hor., moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 83°4. Daily fall of rain by Osler's Gauge 0.16.
5	L	⌐i scattered about.	
5	L	⌐i scattered about; a few drops of rain at 2h. 20m.	
7	L	Densely clouded with ⌐i; light rain at 3h. which ceased at 3h. 5m.	
7	L	Densely clouded with ⌐i and ⌐i; a lunar-halo.	
6	C	⌐i scattered throughout, moving ENE; ⌐i above hor. in E, SE, S, and SW.	
5	C	⌐i scatd. about, moving NE; drizzling rain at 6h. 35m. which ceased at 6h. 47m.	
6	C	⌐i around hor., ⌐i scattered about; drizzling rain at 7h. 24m. which lasted 5m.	
7	C	Densely clouded with ⌐i and ⌐i, the former moving ENE.	
6	H	⌐i around hor.; ⌐i and ⌐i scattered throughout.	
7	H	⌐i and ⌐i scattered throughout.	
7	H	" " "	
7	H	⌐i around hor.; ⌐i scattered throughout.	
7	L	⌐i scattered about hor., moving NE; ⌐i scattered throughout.	
7	L	" " " " "	
7	L	" " " " "	
8	L	Overcast with ⌐i, moving ENE.	
8	L	" " " "	
8	L	Overcast.	
8	L	"	
8	L	"	
8	L	"	
5	L	⌐i scattered about; rain commenced at 10h. 52m.	
8	L	Overcast; raining.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Sept 14th-Midnight	29.795	28.952	77°0	75°3	1°7	74°6	0.93	78°0	79°2	W b S	0.0					
1 a. m.	.779	.962	77.0	74.6	2.4	73.6	.90	77.4	79.2	„	0.0					
2 „	.775	.948	76.8	74.8	2.0	74.0	.91	77.6	79.1	„	0.4					
3 „	.767	.926	76.2	75.0	1.2	74.5	.95	76.8	79.0	„	0.1	0.18				
4 „	.769	.926	76.0	75.0	1.0	74.6	.96	76.6	78.9	„	0.0					
5 „	.783	.959	76.0	74.5	1.5	73.9	.93	76.5	78.9	„	0.0					
6 „	.791	.967	76.0	74.5	1.5	73.9	.93	76.5	78.8	W	0.0					
7 „	.805	.981	76.7	74.7	2.0	73.9	.92	77.2	78.9	„	0.1					
8 „	.830	.965	78.6	76.3	2.3	75.4	.90	79.1	79.0	„	0.1					
9 „	.837	.948	80.8	77.5	3.3	76.3	.87	80.8	79.5	„	0.2					
10 „	.838	.958	81.6	77.5	4.1	75.9	.84	81.4	79.7	„	0.2					
11 „	.831	.939	82.3	78.0	4.3	76.4	.83	82.0	79.9	„	0.3					
Noon.	.821	.918	82.8	78.4	4.4	76.7	.83	82.6	80.0	W b N	0.1		None.	None.	None.	None.
1 p. m.	.794	.894	83.9	78.6	5.3	76.6	.80	83.2	80.4	SW b S	0.3					
2 „	.777	.872	84.2	78.8	5.4	76.9	.80	83.2	80.5	„	0.1					
3 „	.763	.836	84.4	79.4	5.0	77.6	.81	83.5	80.6	„	0.3					
4 „	.754	.874	83.4	78.0	5.4	75.9	.79	83.5	80.9	S b W	0.4					
5 „	.758	.914	80.2	76.2	4.0	74.6	.84	80.2	80.5	SW b S	0.1					
6 „	.775	.910	78.7	76.6	2.1	75.4	.91	79.1	80.2	SSW	0.0					
7 „	.799	.943	78.4	76.0	2.4	75.1	.90	79.0	80.0	SW	0.0					
8 „	.816	.958	78.2	76.0	2.2	75.1	.91	79.0	80.0	„	0.0					
9 „	.824	.976	76.6	75.3	1.3	74.8	.94	76.9	79.5	SW b W	0.1	0.10				
10 „	.834	.995	76.4	75.0	1.4	74.4	.94	76.8	79.4	WSW	0.0					
11 „	.826	29.038	75.9	73.5	2.4	72.5	.90	76.2	79.4	SW b S	0.0					
Sept 15th-Midnight	.819	.019	75.8	73.8	2.0	73.0	.91	76.6	79.2	SW b S	0.0					
1 a. m.	.812	.002	76.2	74.2	2.0	73.3	.91	77.0	79.0	„	0.0					
2 „	.800	28.984	76.4	74.4	2.0	73.6	.91	77.0	78.9	„	0.0					
3 „	.794	.955	76.4	75.0	1.4	74.4	.94	77.2	79.0	„	0.0					
4 „	.800	.966	76.8	75.0	1.8	74.3	.92	77.2	79.0	„	0.0					
5 „	.811	.946	76.8	75.8	1.0	75.4	.96	77.6	79.0	S b W	0.2					
6 „	.829	.964	76.8	75.8	1.0	75.4	.96	77.5	78.9	„	0.1					
7 „	.846	.981	77.5	76.0	1.5	75.4	.94	78.2	79.0	„	0.0					
8 „	.870	.970	79.4	77.4	2.0	76.6	.92	80.0	79.3	S	0.0					
9 „	.876	.996	79.7	77.0	2.7	75.9	.89	80.6	79.5	„	0.2					
10 „	.879	.930	80.9	79.0	1.9	78.3	.92	81.6	79.6	„	0.2	0.04				
11 „	.875	.942	82.4	79.0	3.4	77.8	.86	82.2	80.0	„	0.2					
Noon.	.855	.948	83.2	78.6	4.6	76.9	.82	82.8	80.2	„	0.2		None.	None.	None.	None.
1 p. m.	.826	.940	83.6	78.2	5.4	76.1	.79	83.4	80.3	S b W	0.2					
2 „	.801	.932	84.4	78.0	6.4	75.5	.76	83.4	80.9	„	0.2					
3 „	.788	.911	84.4	78.2	6.2	75.8	.76	83.6	80.8	SSW	0.1					
4 „	.799	.919	84.8	78.6	6.2	76.3	.76	83.6	80.8	SW b S	0.2					
5 „	.807	.963	83.0	77.0	6.0	74.6	.77	82.1	80.9	SW	0.1					
6 „	.817	.964	80.8	76.6	4.2	75.0	.83	81.0	80.7	„	0.1					
7 „	.841	.991	79.9	76.3	3.6	74.8	.85	80.3	80.5	„	0.0					
8 „	.861	29.014	79.2	76.0	3.2	74.7	.87	80.0	80.3	„	0.0					
9 „	.877	.034	78.8	75.8	3.0	74.6	.88	79.2	80.1	„	0.0					
10 „	.885	.040	78.6	75.8	2.8	74.7	.88	79.2	80.0	„	0.0					
11 „	.876	.029	78.4	75.8	2.6	74.7	.89	78.8	80.0	„	0.0					
Sept 16th-Midnight	.860	29.003	78.3	76.0	2.3	75.1	.90	78.8	80.0	SW	0.0					
1 a. m.	.847	.000	77.8	75.6	2.2	74.7	.91	78.4	79.8	„	0.0					
2 „	.835	28.990	78.0	75.6	2.4	74.7	.90	78.8	79.7	„	0.0					
3 „	.833	.973	78.0	76.0	2.0	75.2	.92	78.7	79.7	„	0.0					
4 „	.835	.980	77.4	75.7	1.7	75.0	.93	78.2	79.6	„	0.0					
5 „	.839	29.000	77.1	75.2	1.9	74.4	.92	78.1	79.5	„	0.0					
6 „	.847	28.959	77.4	76.7	0.7	76.4	.97	78.3	79.4	„	0.0					
7 „	.857	.945	78.7	77.5	1.2	77.1	.95	79.6	79.6	„	0.0					
8 „	.873	.956	80.0	78.0	2.0	77.2	.92	80.2	79.9	„	0.0					
9 „	.883	29.013	81.4	77.2	4.2	75.6	.83	81.7	80.1	„	0.1					
10 „	.882	28.985	81.8	7.80	3.8	76.5	.85	82.4	80.2	SW b W	0.1					
11 „	.875	.968	82.4	78.4	4.0	76.9	.84	82.8	80.4	„	0.2					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ⌣i cirri; ⌣ni cirro-cumuli; ⌒i cumuli; ⌣i cirro-strati; ⌒i cumulo-strati; and ⌣ni nimbi.	
4	H	⌣i scattered around hor. and a few patches here and there, moving ENE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°8 and 83°2. Daily fall of rain by Osler's Gauge 0.28.
2	L	⌣i scattered around hor., moving ENE.	
8	L	Overcast with ⌣i, moving E; light rain at 2h. 10m. which ceased at 2h. 32m.	
7	L	Densely clouded with ⌣i; a break in NW.	
8	L	Overcast; a few stars dimly visible about zth.	
7	C	Densely clouded with ⌣i and ⌣i.	
5	C	⌣i around hor.; ⌣i and ⌣i scattered throughout.	
5	C	⌣i scattered about hor.; a few ⌣i in SE and S.	
3	C	⌣i scattered about, moving NE; ⌣i in E hem.	
6	H	⌣i scattered throughout, moving ENE.	
4	H	⌣i around hor.; ⌣i scattered about.	
4	H	⌣i around hor.; a few patches floating here and there.	
7	H	Densely clouded with ⌣i, moving ENE.	
2	L	⌣i in hor., moving ENE.	
5	L	⌣i around hor., ⌣i scattered in W hem.	
5	L	⌣i scattered about, moving E.	
3	L	Masses of ⌣i scattered here and there, moving ENE. [a rainbow in E.	
7	C	Densely clouded with ⌣i and ⌣i; light rain at 5h. 13m. which lasted at 13m.;	
8	C	Overcast with ⌣i and ⌣i, the former moving ENE.	
6	C	⌣i scattered throughout.	
8	C	Overcast with ⌣i, moving E; rain commenced at 8h. 30m. and ceased at 8h. 45m.	
7	H	Densely clouded with ⌣i, moving E; no rain.	
8	H	Overcast; a few stars dimly visible.	
7	H	Densely clouded with ⌣i.	
4	H	⌣i scattered around hor., moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°8 and 83°2. Daily fall of rain by Osler's Gauge 0.04.
2	L	" " " "	
2	L	" " " "	
3	L	⌣i scattered about, moving E.	
2	L	⌣i around hor. and in W hem.	
5	C	⌣i scattered about; a few ⌣i in E.	
6	C	⌣i and ⌣i scattered throughout, the former moving NE.	
6	C	" " " " "	
5	C	⌣i around hor.; ⌣i scattered about. [at 9h. 35m.	
7	H	Densely clouded with ⌣i, moving E; drizzling rain at 9h. 10m. which ceased	
5	H	⌣i around hor.; ⌣i scattered here and there.	
5	H	⌣i and ⌣i scattered about, the former moving ENE.	
6	H	⌣i around hor.; ⌣i scattered about.	
6	L	⌣i around hor.; ⌣i and ⌣i scattered about.	
3	L	⌣i around hor.; ⌣i and ⌣i scattered here and there.	
6	L	⌣i scattered about, moving NE; ⌣i and ⌣i in S and SW.	
5	L	⌣i scattered about, moving ENE. [NE and E.	
4	C	⌣i and ⌣i scattered about, the former moving ENE; a few patches of ⌣i in	
6	C	⌣i and light ⌣i scattered about, the former moving E.	
6	C	⌣i scattered throughout, moving E.	
3	C	⌣i scattered around hor.	
3	H	" " "	
4	H	⌣i scattered about.	
4	H	" ".	
3	H	⌣i scattered about hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°8 and 83°2. Daily fall of rain by Osler's Gauge 0.26.
5	L	⌣i scattered about, moving NE.	
4	L	⌣i scattered around hor.	
4	L	" " "	
3	L	" " "	
5	C	⌣i scattered about.	
8	C	Overcast with ⌣i and ⌣i, the former moving ENE.	
6	C	⌣i and ⌣i scattered throughout, the former moving ENE.	
6	C	Clouded as before.	
6	H	" "	
7	H	Densely clouded with ⌣i and ⌣i, the former moving E.	
7	H	Clouded as before.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Sept. 16th-Noon.	29.852	28.925	84°4	79°4	5°0	77°6	0.81	84°9	80°7	SW b W	0.2					
1 p. m.	.823	.917	84.8	79.0	5.8	76.8	.78	84.2	81.0	„	0.3					
2 „	.790	.908	83.2	78.0	5.2	76.0	.80	82.8	81.0	W b S	0.2					
3 „	.773	.861	85.0	79.2	5.8	77.1	.78	84.3	81.2	W	0.2					
4 „	.773	.904	84.4	78.0	6.4	75.5	.76	83.8	81.2	„	0.2					
5 „	.785	.936	82.9	77.1	5.8	74.8	.77	82.6	81.2	W b N	0.2					
6 „	.795	.949	81.0	76.5	4.5	74.7	.82	81.2	80.9	„	0.1		None.	None.	None.	None.
7 „	.808	.974	80.4	76.0	4.4	74.3	.82	80.7	80.7	W	0.2					
8 „	.825	.952	80.4	77.0	3.4	75.7	.86	80.9	80.7	W b N	0.1					
9 „	.843	29.009	78.6	75.5	3.1	74.3	.87	78.4	80.5	WNW	0.2	0.24				
10 „	.844	.000	78.7	75.8	2.9	74.6	.88	78.2	80.3	W b N	0.1	0.02				
11 „	.827	28.974	77.2	75.6	1.6	75.0	.93	78.1	80.1	WSW	0.0					
Sept 17th-Midnight	.817	.955	77.1	75.8	1.3	75.0	.94	78.0	80.0	SW b W	0.0	0.04				
1 a. m.	.805	.913	77.2	76.6	0.6	76.4	.97	78.2	79.9	NE	0.0	0.04				
2 „	.797	.943	76.4	75.4	1.0	75.0	.94	77.2	79.7	„	0.0	0.23				
3 „	.790	.933	76.1	75.4	0.7	75.1	.97	76.8	79.5	NNE	0.0	0.19				
4 „	.782	.925	76.1	75.4	0.7	75.1	.97	77.0	79.5	„	0.0	0.07				
5 „	.788	.915	76.1	75.8	0.3	75.7	.99	77.1	79.4	„	0.0					
6 „	.789	.911	76.4	76.0	0.4	75.9	.98	77.2	79.4	„	0.0					
7 „	.809	.930	76.6	76.1	0.5	75.9	.98	77.4	79.4	„	0.0	0.09				
8 „	.824	.942	77.0	76.3	0.7	76.0	.97	77.9	79.4	„	0.0					
9 „	.833	.959	76.7	76.0	0.7	75.7	.97	77.8	79.3	N b E	0.2	0.21				
10 „	.833	.253	76.9	76.2	0.7	75.9	.97	77.6	79.3	W	0.2	0.09				
11 „	.807	.914	77.8	76.8	1.0	76.4	.96	78.9	79.3	NW	0.0	0.20				
Noon.	.788	.894	78.8	77.1	1.7	76.4	.93	79.3	79.6	NW b W	0.0	0.04	None.	None.	None.	None.
1 p. m.	.762	.844	78.4	77.6	0.8	77.2	.97	79.2	79.6	NW b N	0.3	0.14				
2 „	.743	.830	79.6	77.8	1.8	77.1	.93	80.0	79.8	WNW	0.2					
3 „	.722	.842	78.3	76.6	1.7	75.9	.93	79.0	79.6	„	0.4					
4 „	.722	.833	78.2	76.8	1.4	76.3	.94	78.8	79.6	„	0.2					
5 „	.724	.840	79.4	77.0	2.4	76.1	.90	80.0	79.8	„	0.4					
6 „	.742	.885	78.6	76.1	2.5	75.1	.90	79.0	79.7	„	0.3					
7 „	.762	.908	78.2	75.9	2.3	75.0	.90	78.8	79.6	„	0.4					
8 „	.782	.925	78.6	76.1	2.5	75.1	.90	79.1	79.6	„	0.3					
9 „	.792	.932	78.7	76.2	2.5	75.2	.90	79.2	79.6	„	0.2					
10 „	.796	.919	78.6	76.6	2.0	75.8	.92	79.0	79.6	„	0.1					
11 „	.788	.899	78.2	76.8	1.4	76.3	.94	78.7	79.6	„	0.1					
Sept 18th-Midnight	.782	.883	78.0	77.0	1.0	76.6	.96	78.5	79.5	NE b E	0.0					
1 a. m.	.755	.923	78.4	75.4	3.0	74.2	.87	79.4	79.5	„	0.2					
2 „	.737	.895	78.2	75.6	2.6	74.6	.89	78.6	79.5	NW b W	0.2	0.01				
3 „	.729	.858	77.0	76.0	1.0	75.6	.96	77.6	79.3	WNW	0.0	0.12				
4 „	.731	.864	76.6	75.8	0.8	75.5	.97	77.2	79.2	N b E	0.0	0.01				
5 „	.737	.865	76.4	75.8	0.6	75.6	.97	77.0	79.1	„	0.0	0.03				
6 „	.752	.880	76.4	75.8	0.6	75.6	.97	77.0	79.1	ENE	0.0	0.10				
7 „	.775	.900	76.2	75.8	0.4	75.6	.98	76.9	79.0	„	0.0	0.02				
8 „	.795	.893	76.7	76.0	0.7	75.7	.97	77.1	79.0	„	0.0					
9 „	.794	.904	77.4	76.6	0.8	76.3	.97	78.0	79.1	„	0.0	0.01				
10 „	.787	.903	78.0	76.6	1.4	76.1	.94	79.0	79.2	E b N	0.2					
11 „	.781	.898	80.2	77.2	3.0	76.1	.88	80.7	79.6	ENE	0.2					
Noon.	.762	.898	77.6	76.0	1.6	75.4	.93	77.9	79.3	NW	0.3	0.15	None.	None.	None.	None.
1 p. m.	.750	.857	80.0	77.4	2.6	76.4	.89	80.8	79.6	W	0.3					
2 „	.732	.843	80.4	77.4	3.0	76.3	.88	80.6	79.8	„	0.1					
3 „	.716	.888	78.8	75.4	3.4	74.0	.86	78.6	79.6	W b N	0.2					
4 „	.716	.837	78.4	76.6	1.8	75.9	.92	78.6	79.5	NW b W	0.1					
5 „	.719	.852	77.7	76.1	1.6	75.5	.93	78.2	79.5	NNW	0.0					
6 „	.730	.873	77.2	75.7	1.5	75.1	.94	78.0	79.4	„	0.0					
7 „	.748	.877	77.0	76.0	1.0	75.6	.96	78.0	79.3	„	0.0					
8 „	.768	.897	77.0	76.0	1.0	75.6	.96	78.0	79.2	„	0.0					
9 „	.780	.923	76.9	75.6	1.3	75.1	.94	77.4	79.1	„	0.0					
10 „	.784	.936	76.6	75.3	1.3	74.8	.94	77.2	79.0	NE	0.2					
11 „	.774	.937	76.5	75.0	1.5	74.4	.94	77.0	79.0	NE b E	0.0					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Nota.—In recording these Observations, the Symbols used to denote the clouds are: cirri; cirro-cumuli; cumuli; cirro-strati; cumulo-strati; and nimbi.	
7	H	Clouded as before.	
7	L	, , and scattered throughout; drops of rain at 1h. 37m.	
6	L	Clouded as before.	
9	L	and scattered throughout, the former moving ESE.	
7	L	" " " " " [rainbow in E.	
8	C	Densely clouded with , and ; light rain at 5h. 4m. which lasted 9m.; a around hor.; scattered about.	
8	C	Overcast with , moving ESE; a few stars dimly visible.	
8	C	Overcast; a passing shower of rain at 8h. 50m.	
8	H	Overcast; rain continued at full hour.	
8	H	Overcast; rain ceased at 10h. 14m.	
8	H	Overcast; light rain at 11h. 35m. which lasted 5m.; it recommenced at 11h. 50m.	
8	H	Overcast; rain ceased at 0h. 37m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°8 and 83°2. Daily fall of rain by Osler's Gauge 1.31.
8	L	Overcast; rain commenced from 1h. 4m.	
8	L	Overcast; raining lightly.	
8	L	Overcast; rain ceased at 3h. 29m.	
8	L	Overcast; drops of rain falling.	
8	C	" " "	
8	C	Overcast; rain commenced at full hour and ceased at 6h. 49m.	
8	C	Overcast; no rain.	
8	C	Overcast; rain commenced at 8h. 21m.	
8	H	Overcast; raining lightly.	
8	H	" " "	
8	H	" " "	
8	H	" " "	
8	L	Overcast; rain ceased at 1h. 12m.	
8	L	Overcast with , moving ESE.	
8	L	" " " "	
8	L	" " " "	
8	C	Overcast; a light drizzle at 5h. 3m.	
8	C	Overcast; a rainbow in E.	
8	C	Overcast.	
8	C	"	
8	H	Overcast with , moving E.	
8	H	" " "	
8	H	" " "	
8	H	Overcast with , moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°6 and 83°1. Daily fall of rain by Osler's Gauge 0.53; the daily range of the Temperature of Evaporation was 2°4, the least in the month.
8	L	Overcast; rain commenced at 1h. 54m.	
8	L	Overcast; raining.	
8	L	Overcast; rain ceased at 3h. 20m.	
8	L	Overcast; rain commenced at 4h. 15m.	
8	C	Overcast; rain ceased at 5h. 43m.	
8	C	Overcast; drops of rain falling now and then.	
8	C	Overcast with , moving ESE; drops of rain falling.	
8	C	Overcast; rain ceased at 8h. 21m.	
8	H	Overcast; fog along E hor.	
8	H	" " "	
8	H	Overcast; light rain at 11h. 25m. and at 11h. 52m.	
8	H	Overcast with , moving E; rain ceased at 0h. 7m.	
8	L	Clouded as before; no rain.	
8	L	" " "	
8	L	Overcast with , moving SE; a few drops of rain fell between 3h. and 3h. 15m.	
8	L	Clouded as before; but no rain.	
8	C	and scattered throughout, the former moving SE.	
8	C	Clouded as before.	
8	C	" "	
8	C	Overcast; a few drops of rain at 8h 19m.	
8	H	Overcast; drops of rain between 9h. and 9h. 30m.	
8	H	Overcast; a few stars dimly visible W of zth.	
8	H	Overcast.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volts 1.	Readings of Straws of Volts 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Sept 19th-Midnight	29.764	28.925	76°4	75°0	1°4	74°4	0.94	77°0	79°0	ENE	0.0					
1 a. m.	.739	.889	76.8	75.4	1.4	74.8	.94	77.5	79.0	,,	0.0					
2 ,,	.735	.899	76.6	75.0	1.6	74.3	.93	77.2	78.9	,,	0.0					
3 ,,	.730	.896	75.4	74.6	0.8	74.3	.97	76.0	78.7	WNW	0.0	0.29				
4 ,,	.722	.879	75.3	74.8	0.5	74.6	.98	75.8	78.5	,,	0.0	0.03				
5 ,,	.738	.887	75.3	75.0	0.3	74.9	.99	76.0	78.5	,,	0.0	0.03				
6 ,,	.744	.888	75.6	75.2	0.4	75.1	.98	76.2	78.5	,,	0.0	0.04				
7 ,,	.772	.926	75.7	75.0	0.7	74.7	.97	76.0	78.5	,,	0.0	0.19				
8 ,,	.783	.924	75.3	75.2	0.1	75.2	1.00	76.0	78.5	NNW	0.0	0.49				
9 ,,	.794	.886	77.2	77.0	0.2	76.9	0.99	77.9	78.6	NW b N	0.0	0.10				
10 ,,	.786	.860	79.2	78.0	1.2	77.5	.95	76.4	79.0	WNW	0.1					
11 ,,	.773	.878	78.4	77.0	1.4	76.5	.94	78.4	79.0	,,	0.1	0.04	None.	None.	None.	None.
Noon.	.763	.890	76.8	76.0	0.8	75.7	.97	76.4	78.9	,,	0.2	0.32				
1 p. m.	.735	.863	76.2	75.8	0.4	75.6	.98	76.2	78.7	,,	0.2	0.57				
2 ,,	.704	.826	76.4	76.0	0.4	75.9	.98	76.2	78.5	W	0.5	0.78				
3 ,,	.686	.792	77.4	76.7	0.7	76.4	.97	77.8	78.7	,,	0.5	0.03				
4 ,,	.686	.796	78.8	77.0	1.8	76.3	.92	79.0	89.0	,,	0.3					
5 ,,	.694	.828	77.8	76.1	1.7	75.4	.93	78.2	68.9	W b S	0.3					
6 ,,	.704	.824	77.6	76.4	1.2	75.9	.95	78.2	78.9	,,	0.4					
7 ,,	.738	.847	78.0	76.8	1.2	76.3	.95	78.5	79.0	,,	0.3					
8 ,,	.761	.851	78.5	77.4	1.1	77.0	.95	79.0	79.0	W	0.3					
9 ,,	.774	.876	78.1	77.0	1.1	76.6	.95	78.5	79.0	WSW	0.1	0.04				
10 ,,	.781	.906	77.4	76.2	1.2	75.8	.95	78.0	79.0	,,	0.1	0.01				
11 ,,	.773	.906	77.4	76.0	1.4	75.5	.94	77.7	79.0	,,	0.3	0.55				
Sept 21st-Midnight	.772	.847	77.8	77.6	0.2	77.5	.99	78.2	79.0	WSW	0.0					
1 a. m.	.753	.831	77.4	77.4	0.0	77.4	1.00	78.0	79.0	,,	0.0					
2 ,,	.731	.817	77.4	77.2	0.2	77.1	0.99	77.9	79.0	,,	0.0					
3 ,,	.727	.807	77.6	77.4	0.2	77.3	.99	78.0	78.9	,,	0.0					
4 ,,	.729	.809	77.6	77.4	0.2	77.3	.99	78.0	78.9	,,	0.0					
5 ,,	.739	.833	77.4	77.0	0.4	76.8	.98	78.0	78.9	,,	0.0	0.07				
6 ,,	.753	.845	77.2	77.0	0.2	76.9	.99	77.9	78.9	,,	0.0					
7 ,,	.772	.848	77.6	77.5	0.1	77.5	1.00	78.6	79.0	,,	0.0					
8 ,,	.797	.862	78.4	78.0	0.4	77.8	0.98	79.1	79.1	SW b W	0.0					
9 ,,	.809	.819	81.0	80.0	1.0	79.6	.96	81.6	79.5	SW	0.1					
10 ,,	.816	.849	79.3	79.0	0.3	78.9	.99	80.2	79.4	,,	0.0	0.19				
11 ,,	.814	.855	79.6	78.9	0.7	78.6	.97	80.0	79.4	W b S	0.2	0.09	None.	None.	None.	None.
Noon.	.796	.862	79.2	78.2	1.0	77.8	.96	80.0	79.4	,,	0.2					
1 p. m.	.778	.852	80.3	78.3	2.0	77.5	.92	81.0	79.7	W b N	0.2					
2 ,,	.756	.859	79.6	77.3	2.3	76.5	.90	79.8	79.8	W b S	0.5					
3 ,,	.760	.865	77.6	76.8	0.8	76.5	.97	78.0	79.4	,,	0.2	0.03				
4 ,,	.758	.898	78.0	76.0	2.0	75.2	.92	78.3	79.4	W b N	0.1					
5 ,,	.757	.858	78.4	77.1	1.3	76.6	.94	78.8	79.4	,,	0.0					
6 ,,	.765	.870	78.4	77.0	1.4	76.5	.94	78.8	79.4	W b S	0.1					
7 ,,	.790	.969	78.0	75.0	3.0	73.8	.87	78.0	79.4	,,	0.2					
8 ,,	.807	.946	77.2	75.8	1.4	75.2	.94	78.0	79.1	,,	0.0					
9 ,,	.819	.956	77.0	75.8	1.2	75.3	.95	77.4	79.1	W	0.0	0.04				
10 ,,	.827	.967	76.6	75.6	1.0	75.2	.96	76.7	79.0	,,	0.0	0.10				
11 ,,	.818	.959	76.3	75.5	0.8	75.2	.97	76.5	78.9	,,	0.0	0.24				
Sept 22nd-Midnight	.810	.926	76.6	76.2	0.4	76.1	.98	76.8	78.9	S	0.2	0.08				
1 a. m.	.793	.902	76.6	76.4	0.2	76.3	.99	77.0	78.8	S b E	0.1					
2 ,,	.787	.898	76.4	76.3	0.1	76.3	1.00	77.0	78.8	SSE	0.2	0.43				
3 ,,	.776	.930	75.7	75.0	0.7	74.7	0.97	76.4	78.7	S b W	0.0	0.04				
4 ,,	.777	.897	76.2	76.0	0.2	75.9	.99	77.0	78.7	S b E	0.0					
5 ,,	.793	.906	76.6	76.3	0.3	76.2	.99	77.0	78.6	S	0.0		None.	None.	None.	None.
6 ,,	.809	.962	76.0	75.1	0.9	74.7	.96	76.5	78.6	S b W	0.0					
7 ,,	.832	.918	77.4	77.2	0.2	77.1	.99	78.2	78.7	,,	0.1					
8 ,,	.849	.915	79.6	78.3	1.3	77.8	.95	80.2	79.0	,,	0.1					
9 ,,	.852	.910	80.8	78.8	2.0	78.1	.92	80.8	79.3	,,	0.1					
10 ,,	.854	.965	79.3	77.1	2.2	76.3	.91	79.4	79.3	SE	0.2					
11 ,,	.849	.954	78.4	77.0	1.4	76.5	.94	79.4	79.6	S b W	0.3	0.20				

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∿ cirri; ∿≡ cirro-cumuli; ⌒≡ cumuli; ⌣≡ cirro-strati; ⌒∿ cumulo-strati; and ∿≡ nimbi.	
8	H	Overcast with ∿≡, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°6 and 83°1. Daily fall of rain by Osler's Gauge 3.05; the Reading of Barometer at 3 P. M. was 29.686, least during the month, and about 0.092in. lower than the Normal Mean.
8	L	" " "	
8	L	Overcast; rain commenced from 2h. 15m.	
8	L	Overcast; rain ceased at 3h. 18m.	
8	L	Overcast; rain commenced at 4h. 28m.	
8	C	Overcast with ∿≡, moving SE; raining.	
8	C	" " " "	
8	C	" " " "	
8	C	Overcast with ∿≡, moving SSE; raining.	
8	H	Overcast; rain ceased at 9h. 30m. but recommenced at 9h. 35m.	
8	H	Overcast; raining.	
8	H	Overcast with ∿≡, moving ESE; raining.	
8	H	Overcast; raining.	
8	L	Overcast with ∿≡, moving SE; raining.	
8	L	Overcast with ∿≡, moving ESE; rain ceased at 2h. 28m.	
8	L	∿≡ scattered throughout, moving E; [rain at 4h. 32m. which lasted 3m.	
8	L	∿≡ scattered throughout, moving E; ∿≡ and ∿ above S and SE hor.; light	
8	H	Overcast with ∿≡, moving E.	
8	H	" " "	
8	H	Overcast; rain commenced at 7h. 57m.	
8	H	Overcast; raining.	
8	H	" "	
8	H	" "	
8	H	" "	
8	H	Overcast with ∿≡, moving E; drops of rain between 0h. 42m. and 0h. 54m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°4 and 83°0. Daily fall of rain by Osler's Gauge 0.76; the Temperature of the calculated Dew-point at 9 A. M. was 79°6, greatest in the month, and the Temperature of Evaporation at the same hour was 80°0, greatest in the month.
8	L	Overcast; no rain.	
8	L	" "	
8	L	" "	
8	L	Overcast; light rain at 4h. 15m. which ceased at 4h. 38m.	
8	C	Overcast; no rain.	
8	C	∿≡ around hor.; ∿≡ scattered throughout.	
8	C	∿≡ and ∿≡ scattered throughout, the former moving E.	
8	C	∿≡ around hor.; ∿≡ scattered about.	
8	H	Densely clouded with ∿≡; rain now and then.	
7	H	Overcast; light rain at 10h. 17m. which lasted 8m.	
8	H	Overcast; light rain at full hour which lasted 17m. and recommenced at 9h. 17m.	
8	H	Overcast; rain ceased at 0h. 20m.	
8	L	Overcast; no rain.	
8	L	Overcast; light rain at 2h. 32m. which ceased at 2h. 56m.	
8	L	Overcast; no rain.	
8	L	" "	
8	C	" "	
8	C	" "	
8	C	Densely clouded with ∿≡, moving E.	
5	C	∿≡ scattered about; light rain at 8h. 40m. which lasted 8m.	
4	H	∿≡ scattered about; rain commenced at 9h. 22m. and ceased at 9h. 46m.	
7	H	Densely clouded; passing showers of rain at 10h. and 10h. 42m.	
8	H	Overcast with ∿≡; light rain from 11h. to 11h. 40m.	
8	H	Overcast with ∿≡, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°4 and 83°0. Daily fall of rain by Osler's Gauge 0.71.
8	L	Overcast; rain commenced at 1h. 6m. and ceased at 1h. 38m. [lasted 4m.	
7	L	∿≡ scatd. throughout, except in SW of zth.; a shower of rain at 2h. 21m. which	
6	L	∿≡ scattered throughout, except in W; a passing shower of rain at 3h. 57m.	
8	L	Overcast; no rain.	
6	C	∿≡ scattered throughout, except in W; a few drops of rain at 5h. 37m.	
6	C	∿≡ and ∿≡ scattered throughout; fog along E hor.	
8	C	Overcast with ∿≡, moving ENE.	
6	C	∿≡ and ∿≡ scattered throughout, the former moving ENE.	
6	H	" " " " "	
8	H	Overcast with ∿≡; a passing shower of rain at 10h. 25m. which recommenced	
8	H	Densely clouded; no rain. [at 10h. 40m. but ceased at 10h. 45m.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.				
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.	
	in.	in.									lbs.	in.		Sc. div.	Sc. div.		
Sept. 22nd-Noon.	29.835	28.866	81°8	79°7	2°1	79°0	0.91	82°2	79°6	SSW	0.2						
1 p. m.	.818	.866	83.0	79.6	3.4	78.4	.86	83.0	80.0	SW	0.4						
2 „	.798	.862	82.8	79.2	3.6	77.9	.86	82.7	80.0	WSW	0.4						
3 „	.790	.866	83.2	79.0	4.2	77.5	.83	83.0	80.2	SW b W	0.4						
4 „	.794	.894	82.7	78.3	4.4	76.6	.83	82.6	80.3	„	0.2						
5 „	.805	.932	81.1	77.2	3.9	75.7	.84	81.0	80.2	„	0.2						
6 „	.825	.950	78.8	76.6	2.2	75.8	.91	79.2	79.8	„	0.2	None.	None.	None.	None.	None.	None.
7 „	.840	.983	78.3	76.0	2.3	75.1	.90	78.8	79.6	WSW	0.2						
8 „	.862	29.002	78.0	76.0	2.0	75.2	.96	78.4	79.5	W b S	0.0						
9 „	.868	.025	77.8	75.5	2.3	74.6	.90	78.2	79.5	„	0.0						
10 „	.874	.030	77.7	75.5	2.2	74.6	.91	78.2	79.5	„	0.1						
11 „	.863	.005	77.4	75.8	1.6	75.2	.93	78.0	79.4	„	0.1						
Sept 23rd-Midnight	.849	28.962	77.5	75.8	1.7	75.1	.93	78.0	79.2	W b S	0.0						
1 a. m.	.843	29.005	77.4	75.0	2.4	74.0	.90	77.6	79.1	„	0.0						
2 „	.826	28.975	77.4	75.6	1.8	74.8	.92	77.9	79.1	„	0.2						
3 „	.830	29.000	77.2	75.0	2.2	74.2	.91	77.6	79.1	WSW	0.1						
4 „	.834	28.987	77.0	75.4	1.6	74.7	.93	77.4	79.0	„	0.1						
5 „	.854	29.022	77.0	75.0	2.0	74.2	.91	77.4	79.0	SW b W	0.1						
6 „	.872	.038	76.8	75.0	1.8	74.3	.92	77.2	78.9	„	0.1						
7 „	.888	.054	77.2	75.1	2.1	74.3	.91	77.8	78.9	„	0.1						
8 „	.910	.043	79.9	76.7	3.2	75.5	.87	79.9	79.2	„	0.0						
9 „	.915	.063	81.2	76.7	4.5	74.8	.82	80.9	79.5	„	0.1						
10 „	.920	.032	82.6	78.0	4.6	76.2	.82	82.2	79.7	„	0.2						
11 „	.911	.000	83.6	78.8	4.8	77.0	.81	83.3	80.0	„	0.2						
Noon.	.895	.038	84.0	77.6	6.4	75.1	.76	83.4	80.2	„	0.2	None.	None.	None.	None.	None.	None.
1 p. m.	.874	28.973	83.8	78.6	5.2	76.7	.80	83.3	80.4	„	0.1						
2 „	.861	.969	84.6	78.6	6.0	76.4	.77	83.4	80.5	„	0.3						
3 „	.847	.943	85.0	79.0	6.0	76.8	.77	83.6	80.7	SW	0.1						
4 „	.938	.930	84.6	79.0	5.6	76.9	.79	83.5	80.8	SW b S	0.2						
5 „	.856	29.025	82.4	76.5	5.9	74.1	.77	82.0	80.7	SW	0.0						
6 „	.867	.070	78.8	74.6	4.2	72.9	.83	78.2	80.3	S b W	0.6	0.12					
7 „	.872	.012	77.6	75.9	1.7	75.2	.93	78.2	79.8	SW	0.0	0.20					
8 „	.887	.036	77.4	75.6	1.8	74.8	.92	78.0	79.7	„	0.0						
9 „	.893	.026	77.4	76.0	1.4	75.5	.94	78.0	79.6	„	0.0						
10 „	.887	.048	77.4	75.3	2.1	74.4	.91	77.5	79.5	„	0.0						
11 „	.877	.034	77.4	75.4	2.0	74.6	.91	77.5	79.5	„	0.0						
Sept 24th-Midnight	.863	.007	77.6	75.8	1.8	75.1	.92	78.0	79.5	SW	0.0						
1 a. m.	.846	.047	76.6	74.0	2.6	73.0	.89	76.9	79.4	„	0.0						
2 „	.838	.015	76.4	74.6	1.8	73.6	.92	76.9	79.2	WSW	0.1						
3 „	.835	28.994	76.2	75.0	1.2	74.5	.95	77.0	79.0	„	0.0	0.03					
4 „	.835	.999	76.6	75.0	1.6	74.3	.93	77.2	79.0	„	0.0						
5 „	.851	29.032	76.5	74.5	2.0	73.7	.91	76.9	79.0	„	0.4						
6 „	.865	.015	76.4	75.3	1.1	74.8	.95	76.9	78.9	„	0.0						
7 „	.886	.021	78.6	76.3	2.3	75.4	.90	78.9	79.0	„	0.0						
8 „	.901	.025	80.8	77.2	3.6	75.8	.85	80.7	79.5	„	0.0						
9 „	.908	.026	81.4	77.5	3.9	76.0	.84	81.4	79.7	„	0.1						
10 „	.911	.027	81.9	77.7	4.2	76.1	.83	82.0	79.8	„	0.2						
11 „	.898	28.998	83.0	78.4	4.6	76.6	.82	83.2	80.0	W b S	0.1						
Noon.	.881	.973	83.5	78.7	4.8	76.9	.81	83.3	80.2	W	0.2	None.	None.	None.	None.	None.	None.
1 p. m.	.862	.970	83.8	78.4	5.4	76.4	.79	83.4	80.4	W b S	0.1						
2 „	.854	.960	84.4	78.6	5.8	76.4	.78	83.6	80.5	WSW	0.3						
3 „	.845	.961	83.0	78.0	5.0	76.1	.80	82.6	80.5	W b N	0.2						
4 „	.849	.988	82.6	77.3	5.3	75.2	.79	82.0	80.5	„	0.3						
5 „	.859	29.014	81.4	76.3	5.1	74.7	.80	80.9	80.4	„	0.1						
6 „	.877	.039	79.6	75.9	3.7	74.4	.85	80.0	80.2	„	0.1						
7 „	.889	.070	79.2	75.3	3.9	73.7	.84	79.6	80.1	„	0.1						
8 „	.910	.080	78.6	75.4	3.2	74.1	.87	79.0	80.0	„	0.0						
9 „	.914	.060	78.6	76.0	2.6	75.0	.89	79.0	79.9	„	0.0						
10 „	.912	.110	76.3	74.0	2.3	73.0	.90	76.9	79.5	WNW	0.0	0.03					
11 „	.003	.094	75.6	74.0	1.6	73.3	.93	76.1	79.2	„	0.0						

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤≤ cirro-cumuli; ∩ cumuli; ≤— cirro-strati; ∩— cumulo-strati; and ≤— nimbi.	
6	H	≤— and ≤≤ scattered throughout.	
5	L	≤— scattered about, moving E; ∩ in E, SE, and SW above hor.	
6	L	≤ and ≤— scattered throughout, the latter moving E.	
4	L	≤≤ and ≤— scattered throughout, the latter moving E.	
5	L	≤— scattered about hor., moving SE; ≤≤ in N and SE; ≤ in SE, S, and SW.	
6	C	≤≤ and ≤— scattered about.	
7	C	≤— around hor.; ≤≤ and ≤ scattered throughout.	
6	C	≤— scattered throughout, moving E.	
6	C	≤— around hor. and in E hem.	
4	H	≤— scattered about hor.	
4	H	" " "	
5	H	≤— scattered about, moving E.	
6	H	≤— scattered about, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°4 and 83°0. Daily fall of rain by Osler's Gauge 0.33.
2	L	≤— scattered around hor.	
2	L	" " "	
2	L	" " "	
3	L	" " "	
5	C	≤— around hor.; ≤ scattered about.	
6	C	≤— and light ≤ scattered about, the former moving NE.	
4	C	≤— around hor.; light ≤ scattered throughout.	
4	C	≤— scattered around hor.; in SW and S of zth.	
7	H	≤— and ≤≤ scattered throughout, the former moving ENE.	
5	H	≤— around hor.; ≤≤ scattered about.	
5	H	≤— scattered about, moving NE.	
6	H	≤— scattered about; ≤≤ in S and E.	
3	L	≤— scattered around hor.; a few ≤≤ in E and SE.	
3	L	≤— around hor., moving E; a few ≤≤ about zth.; ≤ in S.	
3	L	Light ≤ around hor.; ≤— scattered about, moving E.	
3	L	Clouded as before.	
7	C	Densely clouded with ≤— and ≤; a passing shower of rain at 5h. 45m.	
8	C	Overcast with ≤—; rain commenced at 6h. 10m. and ceased at 6h. 40m.	
6	C	≤— scattered throughout, moving E; a few patches of ≤≤ about zth.	
3	C	≤— scattered about hor., moving E.	
6	H	≤— scattered about.	
3	H	≤— scattered about hor.	
3	H	" " "	
4	H	≤— scattered about, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°4 and 83°0. Daily fall of rain by Osler's Gauge 0.06.
8	L	Overcast with ≤—.	
8	L	Overcast; a few stars visible about zth.; light rain at 2h. 15m. which lasted 6m.	
6	L	≤— scattered throughout.	
3	L	≤— scattered here and there.	
6	C	≤— scattered throughout; drizzling rain at 5h. 11m. which lasted 7m.	
6	C	≤— scattered about.	
5	C	" "	
5	C	≤— and ≤≤ scattered about, both moving E.	
7	H	≤— scattered throughout, moving ENE.	
6	H	≤— and ≤≤ scattered throughout, the former moving ENE.	
6	H	≤— scattered throughout, moving E.	
6	H	≤— and ≤≤ scattered throughout.	
6	L	≤— around hor.; ≤ in E and SE above hor.; and ≤≤ scattered about.	
7	L	≤— scattered throughout, moving E; ≤ and ≤≤ in SE and E.	
5	L	≤— scattered about; ≤≤ in E and N above hor.	
5	L	≤— around hor.; ≤≤ scattered about.	
5	C	" " " "	
7	C	≤— around hor.; ≤— scattered about; ≤ in SE, S, and SW above hor.	
8	C	Overcast with ≤≤ and ≤—; a few stars dimly visible about zth.	
6	C	≤— scattered throughout; ≤≤ S of zth.	
7	H	≤— scattered throughout; rain commenced at 9h. 18m. and ceased at 9h. 33m.	
8	H	Overcast with ≤—, moving E.	
5		≤— scattered about.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Sept 25th-Midnight	29.892	29.069	76°4	74°6	1°8	73°8	0.92	76°4	79°2	NNE	0.0					
1 a. m.	.875	.055	76.0	74.4	1.6	73.7	.93	76.4	79.1	NE b E	0.2					
2 „	.856	.032	75.3	74.3	1.0	73.9	.96	76.0	79.0	E b N	0.1					
3 „	.856	.047	75.0	73.8	1.2	73 3	.95	75.8	78.8	E b S	0.2					
4 „	.862	.051	74.8	73.8	1.0	73.4	.96	75.6	78.6	„	0.2	0.05				
5 „	.874	.066	74.4	73.6	0.8	73.3	.96	75.1	78.5	SE b E	0.1					
6 „	.890	.095	74.2	73.2	1.0	72.8	.96	75.0	78.4	„	0.2					
7 „	.919	.077	76.5	75.1	1.4	74.6	.94	77.1	78.5	„	0.1					
8 „	.945	.078	77.4	76.0	1.4	75.5	.94	78.2	78.7	SE b S	0.1					
9 „	.947	.071	77.9	76.4	1.5	75.8	.94	78.5	78.8	S b E	0.1					
10 „	.946	.068	79.9	77.0	2.9	75.9	.88	80.2	79.2	„	0.1					
11 „	.937	.052	80.8	77.4	3.4	76.1	.86	81.2	79.3	„	0.2					
Noon.	.914	.027	82.0	77.8	4.2	76.2	.83	81.4	79.6	SSW	0.1		None.	None.	None.	None.
1 p. m.	.896	28.976	82.8	78.8	4.0	77.3	.84	82.5	79.9	SW b S	0.1					
2 „	.884	.988	83.4	78.4	5.0	76.5	.81	82.7	80.0	SW	0.1					
3 „	.872	.997	83.8	78.0	5.8	75.8	.78	82.7	80.3	SW b W	0.1					
4 „	.871	.996	83.1	77.8	5.3	75.8	.79	82.6	80.3	WSW	0.2					
5 „	.885	29.083	81.5	75.5	6.0	73.0	.77	81.1	80.2	W b N	0.1					
6 „	.897	.096	79.8	75.0	4.8	73.0	.81	80.0	80.0	WNW	0.1					
7 „	.913	.119	78.8	74.5	4.3	72.8	.82	79.2	79.8	„	0.0					
8 „	.926	.132	78.4	74.4	4.0	72.8	.83	78.6	79.6	„	0.0					
9 „	.937	.121	77.8	74.8	3.0	73.6	.87	78.2	79.5	„	0.0					
10 „	.942	.121	77.0	74.7	2.3	73.8	.90	77.0	79.3	„	0.0					
11 „	.937	.126	76.5	74.3	2.2	73.4	.91	76.8	79.1	„	0.0					
Sept 26th-Midnight	.927	.122	76.0	74.0	2.0	73.2	.91	76.2	79.0	WNW	0.0					
1 a. m.	.913	.104	75.6	74.0	1.6	73.3	.93	76.0	78.8	„	0.0					
2 „	.907	.049	76.0	75.4	0.6	75.1	.97	76.6	78.8	„	0·0					
3 „	.902	.042	76.6	75.6	1.0	75.2	.96	77.0	78.8	W b N	0.0					
4 „	.914	.073	76.2	75.0	1.2	74.5	.95	76.6	78.7	„	0.0					
5 „	.936	.109	75.8	74.5	1.3	74.0	.95	76.2	78.6	„	0.2					
6 „	.951	.118	75.6	74.6	1.0	74.2	.96	76.2	78.5	„	0.1					
7 „	.976	.123	77.2	75.6	1.6	75·0	.93	77.6	78.7	„	0.2					
8 „	.992	.123	78.5	76.4	2.1	75.5	.91	78.6	78.9	NE b E	0.1					
9 „	.998	.109	80.4	77.4	3.0	76.3	.88	80.2	79.2	„	0·1					
10 „	.997	.107	81.0	77.6	3.4	76.3	.86	80.7	79.4	„	0.1					
11 „	.982	.107	81.7	77.4	4.3	75.8	.83	81.7	79.6	„	0.0		None.	None.	None.	None.
Noon.	.954	.083	82.4	77.5	4.9	75.6	.81	82.1	79.7	„	0.0					
1 p. m.	.926	.051	83.7	78.0	5.7	75.8	.78	83.4	80.0	NW b N	0.1					
2 „	.906	.054	84.4	77.6	6.8	74.9	.74	83.7	80.3	NW	0.2					
3 „	.896	.036	85.2	78.0	7.2	75.2	.73	83.9	80.5	„	0.2					
4 „	.903	.033	85.0	78.2	6.8	75.6	.74	83.8	80.6	„	0.2					
5 „	.905	.082	83.1	76.5	6.6	73.6	.75	82.3	80.5	„	0.1					
6 „	.915	.096	81.0	75.8	5.2	73.7	.79	80.8	80.3	„	0.1					
7 „	.931	.095	80.2	76.0	4.2	74.3	.83	80.2	80.1	NW b N	0.1					
8 „	.942	.104	79.6	75.9	3.7	74.4	.85	80.0	80.0	„	0.0					
9 „	.952	.142	79.4	75.1	4.3	73.3	.82	79.8	80.0	„	0.0					
10 „	.950	.112	79.0	75.7	3.3	74.4	.86	79.5	79.9	„	0.0					
11 „	.934	.103	78.5	75.4	3.1	74.1	.87	79.0	79.7	N b W	0.0					
Sept 28th-Midnight	.872	.054	79.0	75.2	3.8	73.6	.87	79.2	79.8	NW b N	0.2					
1 a. m.	.862	.063	78.6	74.6	4.0	73.0	.83	78.8	79.8	NW	0.2					
2 „	.855	.072	78.0	74.0	4.0	72.3	.83	78.2	79.6	„	0.1					
3 „	.855	.047	77.3	74.6	3.2	73.3	.87	78.2	79.5	„	0.0					
4 „	.862	.065	77.4	74.2	3.2	72.9	.87	77.7	79.4	„	0.0					
5 „	.877	.020	77.2	75.7	1.5	75.1	.94	77.7	79.4	„	0.0					
6 „	.893	.036	77.2	75.7	1.5	75.1	.94	77.6	79.3	NE	0.1					
7 „	.912	.052	78.4	76.1	2.3	75.2	.90	78.9	79.4	NE b E	0.1					
8 „	.933	.079	79.9	76.4	3.5	75.0	.86	80.0	79.6	„	0.2					
9 „	.934	.036	81.7	78.0	3.7	76.6	.85	81.4	80.0	ENE	0.2					
10 „	.928	.059	82.2	77.4	4.8	75.5	.81	81.7	80.1	E	0.1					
11 „	.920	.042	82.8	77.8	5.0	75.9	.80	82.7	80.3	„	0.1					

Immeasurable.

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤≤ cirro-cumuli; ⌒ cumuli; ⌒≤ cirro-struti; ⌒⌒ cumulo-stratti; and ≤≤≤ nimbi.	
8	H	Overcast with ≤≤≤, moving E; drizzling rain at 0h. 38m. which lasted 15m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°4 and 83°0. Daily fall of rain by Osler's Gauge 0.05; Temperature of Air at 6 A. M. was 74°2, least during the month, and about 2°1 lower than the Normal Mean; and at the same hour the Temperature of Evaporation was 73°2, the least during the month. The direction of Wind was circular.
2	L	≤≤≤ scattered around hor.	
2	L	" " " [3h. 58m.	
7	L	≤≤≤ scattered throughout, moving NE; light rain at 3h. 31m. which ceased at	
8	L	Overcast with ≤≤≤; light rain at 4h. 19m. which lasted 5m.	
3	C	≤≤≤ scattered around hor.; ≤ in SE and S; ≤≤≤ in NE and E.	
3	C	≤≤≤ around hor.; ≤≤≤ scattered above N and NE hor.	
6	C	≤≤≤ scattered throughout, moving E.	
8	C	Overcast; a light drizzle at 8h. 33m.	
8	H	Overcast with ≤≤≤, moving ENE.	
7	H	Densely clouded with ≤≤≤, moving E.	
6	H	≤≤≤ around hor.; ≤≤≤ scattered throughout.	
5	H	" " " "	
3	L	≤≤≤ around hor.; ≤ and ≤≤≤ scattered about.	
2	L	≤≤≤ around hor.; ≤≤≤ scattered in NE and E.	
6	L	≤≤≤ scattered throughout, moving E.	
3	L	≤≤≤ scattered about.	
3	C	≤≤≤ scattered around hor.	
4	C	≤≤≤ scattered about; ≤ in SE and S above hor.	
4	C	≤≤≤ scattered about.	
2	C	≤≤≤ scattered around hor.	
2	H	≤≤≤ scattered about hor.	
3	H	" " "	
2	H	" " "	
2	H	≤≤≤ scattered around hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°4 and 83°0. At 9 A. M. the Reading of Barometer was 29.998, greatest during the month, and about 0.121, higher than the Normal Mean for that hour.
1	L	≤≤≤ in hor., otherwise clear; dew falling.	
3	L	≤≤≤ scattered about hor., moving E; dew falling.	
3	L	≤≤≤ scattered around hor. and few masses in zth.; dew falling.	
0	L	Clear, except in hor.; dew falling.	
1	C	Masses of ≤≤≤ along E hor., moving N.	
1	C	≤≤≤ scattered around hor.	
1	C	" " "	
1	C	≤≤≤ in hor.; ≤≤≤ scattered in E and SE.	
1	H	≤≤≤ in hor.; ≤ scattered in NNW and SE.	
1	H	≤≤≤ scattered about hor.; a few ≤ in SE.	
5	H	≤≤≤ and ≤≤≤ scattered about, the former moving ENE.	
2	H	≤≤≤ scattered about, moving SE; a few ≤ in S and SE.	
2	L	≤≤≤ scattered around hor.	
2	L	" " "	
2	L	≤≤≤ scattered around hor. in SW.	
3	L	≤≤≤ scattered about, moving E.	
4	C	" " "	
3	C	" " "	
3	C	≤≤≤ scattered about hor. in SE and S of zth.	
4	C	≤≤≤ scattered about, moving ESE.	
3	C	" " "	
6	C	≤≤≤ scattered throughout, except in NE, E, and SE.	
2	C	≤≤≤ scattered about hor., moving E.	
6	H	Dense ≤≤≤ scattered about, moving E; a few drops of rain at 0h. 10m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°3 and 82°9. Temperature of Air at 2 P. M. was 85°6, greatest during the month; the Temperature of the calculated Dew-point at 6 P. M. was 71.2, the least during the month, Wind blew in a circular motion.
2	L	≤≤≤ scattered about hor.	
2	L	" " "	
2	L	" " "	
2	L	≤≤≤ scattered in NE and E.	
3	C	≤≤≤ scattered around hor.	
5	C	≤≤≤ scattered about, moving ESE.	
3	C	≤≤≤ scattered around hor. and about zth.; fog along E hor.	
1	C	≤≤≤ scattered in SE, S, SW, and W hor.	
3	H	≤≤≤ scattered about hor., moving E; ≤ in S and W above hor.	
3	H	≤≤≤ scattered about hor. moving ESE; dence ≤ in S and WSW.	
4	H	≤≤≤ scattered about, patches of ≤≤≤ in W.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Interval of Time in seconds since the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Sept 28th–Noon.	29.891	29.051	83°4	77°0	6°4	74°5	0.75	82°9	80°3	E	0.1					
1 p. m.	.873	.007	84.6	78.0	6.6	75.4	.75	83.8	80.6	W b N	0.1					
2 „	.865	.010	85.6	78.0	7.6	75.0	.72	84.2	80.9	„	0.2					
3 „	.848	.017	85.3	77.3	8.0	74.1	.70	84.2	81.0	WNW	0.2					
4 „	.847	.029	84.6	76.8	7.8	73.6	.71	83.2	81.0	NW b N	0.3					
5 „	.855	.039	82.4	76.3	6.1	73.6	.76	81.4	80.9	„	0.3	Immeasurable.	None.	None.	None.	None.
6 „	.857	.100	80.4	74.0	6.4	71.2	.75	80.3	80.5	„	0.3					
7 „	.873	.099	79.8	74.3	5.5	71.9	.78	80.0	80.4	„	0.2					
8 „	.889	.121	79.7	74.1	5.6	71.7	.78	79.9	80.3	„	0.2					
9 „	.899	.101	79.4	74.8	4.6	72.9	.81	79.4	80.1	„	0.2					
10 „	.907	.100	79.3	75.0	4.3	73.2	.82	79.2	80.1	„	0.1					
11 „	.900	.086	78.6	75.0	3.6	73.5	.85	78.3	80.0	„	0.0					
Sept 29th–Midnight	.883	.073	77.3	74.5	2.8	73.3	.88	77.0	79.8	NW b N	0.0					
1 a. m.	.863	.049	77.2	74.6	2.6	73.5	.89	77.4	79.6	NNW	0.0					
2 „	.850	.020	77.2	75.0	2.2	74.1	.91	77.8	79.5	N	0.0					
3 „	.854	.034	77.4	74.8	2.6	73.7	.89	77.8	79.5	E	0.0					
4 „	.860	.033	76.8	74.8	2.0	74.0	.91	77.6	79.5	„	0.0					
5 „	.874	.059	76.5	74.4	2.1	73.5	.91	77.1	79.3	„	0.0					
6 „	.887	.059	76.3	74.7	1.6	74.0	.93	77.1	79.2	„	0.0					
7 „	.910	.029	78.2	76.6	1.6	76.0	.93	78.8	79.4	E b N	0.0					
8 „	.931	.067	79.8	76.6	3.2	75.4	.87	79.9	79.5	„	0.0					
9 „	.936	.067	80.7	77.0	3.7	75.5	.85	80.4	79.8	„	0.0					
10 „	.934	.083	81.4	76.8	4.6	74.9	.82	81.1	80.0	„	0.1					
11 „	.920	.091	82.2	76.4	5.8	74.1	.77	81.8	80.1	„	0.1					
Noon.	.890	.032	83.6	77.5	6.1	75.1	.77	83.0	80.3	„	0.0	None.	None.	None.	None.	None.
1 p. m.	.865	.015	84.6	77.6	7.0	74.8	.74	83.8	80.5	NW b W	0.2					
2 „	.844	28.963	85.6	78.6	7.0	76.0	.74	84.4	80.9	„	0.1					
3 „	.833	.978	85.6	78.0	7.6	75.0	.72	84.5	81.0	„	0.2					
4 „	.834	.976	85.4	78.0	7.4	75.1	.72	84.0	81.1	WNW	0.1					
5 „	.858	29.035	83.1	76.5	6.6	73.8	.75	82.5	81.0	„	0.1					
6 „	.870	.050	81.6	76.0	5.6	73.7	.78	81.3	80.9	„	0.1					
7 „	.889	.083	81.1	75.5	5.6	73.2	.78	81.2	80.7	„	0.1					
8 „	.906	.114	80.6	75.0	5.6	72.7	.78	80.7	80.6	„	0.1					
9 „	.923	.128	80.4	75.0	5.4	72.8	.78	80.3	80.6	„	0.1					
10 „	.924	.107	80.1	75.5	4.6	73.6	.81	80.2	80.5	„	0.1					
11 „	.915	.114	79.8	75.0	4.8	73.0	.81	80.0	80.4	„	0.0					
Sept 30th–Midnight	.905	.076	79.4	75.6	3.8	74.1	.84	79.4	80.3	WNW	0.0					
1 a. m.	.891	.094	77.4	74.2	3.2	72.9	.87	76.9	80.2	„	0.0	0.61				
2 „	.882	.077	76.0	74.0	2.0	73.2	.91	76.2	79.7	„	0.0	0.16				
3 „	.878	.087	75.2	73.4	1.8	72.6	.92	75.7	79.4	N b W	0.0					
4 „	.879	.077	75.0	73.6	1.4	73.0	.94	75.4	79.2	„	0.0					
5 „	.893	.080	74.6	73.8	0.8	73.5	.96	75.4	79.0	„	0.0					
6 „	.909	.082	75.0	74.3	0.7	74.0	.97	76.0	78.9	„	0.0					
7 „	.927	.029	78.1	77.0	1.1	76.6	.95	78.5	79.3	N b E	0.0					
8 „	.948	.033	80.2	78.0	2.2	77.2	.91	80.2	79.7	„	0.0					
9 „	.950	.025	81.2	78.5	2.7	77.5	.89	81.2	79.9	„	0.0					
10 „	.943	.024	81.8	78.5	3.3	77.3	.87	81.9	80.1	„	0.0					
11 „	.924	.038	82.8	78.0	4.8	76.1	.81	82.4	80.3	N	0.0					
Noon.	.902	.042	83.4	77.5	5.9	75.2	.77	83.0	80.4	„	0.1					
1 p. m.	.876	28.997	84.2	78.2	6.0	75.9	.77	83.5	80.7	NW	0.1		None.	None.	None.	None.
2 „	.855	29.012	84.6	77.4	7.2	74.6	.73	83.6	80.9	„	0.1					
3 „	.832	28.987	84.8	77.5	7.3	74.7	.73	83.7	81.0	„	0.2					
4 „	.839	.951	85.0	78.6	6.4	76.2	.76	83.8	81.1	NW b W	0.2					
5 „	.844	29.034	82.9	76.1	6.8	73.3	.74	82.1	81.0	WNW	0.1					
6 „	.854	.069	80.2	74.7	5.5	72.4	.78	80.1	80.6	„	0.1					
7 „	.880	.077	79.0	74.8	4.2	73.1	.83	79.5	80.4	„	0.0					
8 „	.907	.090	78.4	75.0	3.4	73.6	.86	79.0	80.2	„	0.0					
9 „	.909	.088	78.0	75.0	3.0	73.8	.87	78.2	80.0	„	0.0					
10 „	.912	.086	77.5	75.0	2.5	74.0	.89	77.6	79.9	„	0.0					
11 „	.909	.081	77.4	75.0	2.4	74.0	.90	77.6	79.8	„	0.0					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: Ci cirri; Cc cirro-cumuli; Cu cumuli; Cs cirro-strati; Cu-s cumulo-strati; and Ns nimbi.	
4	H	Ci and Cc scattered about, the former moving ESE.	
2	L	Ci scattered around hor.; a few patches of Cc in S.	
3	L	Ci scattered about, moving E; a few patches of Cc in SW and W.	
2	L	Ci scattered about; a few Cc in SE.	
3	L	Ci scattered about hor., moving E.	
3	C	Ci scattered about; a few Cc in SW and W.	
2	C	Ci scattered about hor.	
0	C	Clear, except in hor.	
0	C	" "	
4	H	Ci scattered about, moving SE.	
6	H	" " "	
6	H	" " "	
2	H	Ci scattered about hor., moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°3 and 82°9.
2	L	" " " "	
2	L	Ci around hor.; dew falling.	
5	L	Ci around hor. and in W hem.; dew falling	
3	L	Ci scattered about hor.; dew falling.	
7	C	Densely clouded with Ci, moving E.	
4	C	Ci scattered about hor., moving WSW; Cc scattered.	
3	C	Ci scattered about; a few patches of Cc in NE and E.	
1	C	Ci around hor.; Cc above E hor.	
1	H	Ci scattered around hor.	
1	H	Ci around hor.; Ci scattered in E.	
2	H	Ci scattered here and there, moving N.	
2	H	Ci scattered about, moving NE; a few Ci in E.	
2	L	Ci scattered around hor.	
2	L	Ci scattered about, moving E; Cu in E hor.	
2	L	Cu in E hor.; Ci scattered around hor.; Ci above E hor.	
3	L	" " " " " "	
5	C	Cu in E hor.; Ci around hor.; Cc scattered about zth.	
6	C	Ci around hor. and about zth.; a few Ci in SW.	
7	C	Densely clouded with Ci and Cc	
8	C	Overcast with Ci and Cc; a break about zth.	
8	H	Densely clouded with Ci and Cc	
8	H	" " " "	
8	H	" " " "	
8	H	Overcast with Ci, moving E; a few stars dimly visible in NE; rain commenced at 0h. 14m.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°3 and 82°9. Daily fall of rain by Osler's Gauge 0.78. On this day the range of Barometer was 0.118, greatest in the month; and the range of the Temperature of Air 10°4 was also greatest in the month.
8	L	Overcast; rain ceased at 1h. 15m.	
7	L	Ci scattered throughout, except in S.	
3	L	Ci scattered about hor.	
3	L	" " "	
5	C	Ci scattered about.	
1	C	Ci scattered around hor.	
3	C	Ci scattered about, moving S; a few patches of Cc in SE.	
1	C	Ci scattered around hor.	
3	H	Ci scattered about.	
3	H	" "	
2	H	Ci scattered about; a few Ci in E above hor.	
1	H	Ci scattered around hor., otherwise clear.	
1	L	Ci in hor. as before; Cu along E hor.	
1	L	" " " "	
1	L	" " " "	
2	L	Ci scattered here and there, moving E.	
1	C	Ci scattered around hor.; Cu along E hor.	
1	C	Ci scattered about hor.	
2	C	Ci scattered about, moving E; lightning in E, observed at 7h. 2m.	
5	C	Ci scattered about, moving E.	
5	H	" " "	
4	H	Ci scattered about, moving ENE.	
4	H	" " " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture	In the Air.	Wet-bulb Thermometer.	Depression of Wet-bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 Inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in seconds between the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Oct. 1st-Midnight	29.892	29.025	77°4	76°0	1°4	75°5	0.94	78°0	79°6	WNW	0.0					
1 a. m.	.875	.037	78.6	75.6	3.0	74.4	.88	77.8	79.7	„	0.0					
2 „	.853	.021	77.0	75.0	2.0	74.2	.91	77.6	79.5	S b W	0.2					
3 „	.853	28.993	76.6	75.6	1.0	75.2	.96	77.5	79.4	S	0.3					
4 „	.858	29.019	76.4	75.0	1.4	74.4	.94	77.0	79.4	S b E	0·2					
5 „	.872	.029	76.0	75.0	1.0	74.6	.96	76.4	79.4	„	0·4					
6 „	.884	.049	75.7	74.7	1.0	74.3	.96	76.2	79.1	SSE	0·3					
7 „	.892	.017	77.5	76.0	1.5	75.8	.94	78.1	79.2	„	0·2					
8 „	.915	.028	79.5	77.1	2.4	76.2	.90	79.7	79.4	„	0.1					
9 „	.922	.016	81.0	78.0	3.0	76.8	.88	80.9	79.7	„	0.2					
10 „	.921	.027	82.1	78.0	4.1	76.4	.84	81.8	80.0	„	0·1					
11 „	.902	.020	83.2	78.0	2.5	76.0	.80	82.9	80.3	„	0·1	None.	None.	None.	None.	None.
Noon.	.883	28.983	83.9	78.6	5.3	76.6	.80	83.4	80.4	S	0·1					
1 p. m.	.865	.971	84.4	78.6	5.8	76.4	.78	83.5	80.7	SSW	0.1					
2 „	.845	.941	85.0	79.0	6.0	76.8	.77	84.0	80.9	SW b W	0·1					
3 „	.830	.970	85.2	78.0	7.2	75.2	.73	84.2	81.0	WSW	0·2					
4 „	.830	.968	85.0	78.0	7.0	75.3	.74	83.6	81.1	W b S	0·1					
5 „	.850	29.024	83.6	76.7	6.9	74.0	.74	82.4	81.0	W	0.1					
6 „	.860	.038	80.7	75.8	4.9	73.8	.80	80.6	80.7	„	0.1					
7 „	.873	.050	80.0	75.6	4.4	73.8	.86	80.2	80.5	„	0.1					
8 „	.894	.073	79.8	75.5	4.3	73.8	.86	80.2	80.5	„	0.0					
9 „	.908	.094	79.4	75.2	4.2	73.5	.83	79.6	80.3	„	0.0					
10 „	.908	.098	79.0	75.0	4.0	73.3	.84	79.3	80.2	„	0.0					
11 „	.900	.081	78.2	75.0	3.2	73.7	.87	78.2	80.0	„	0.0					
Oct. 2nd-Midnight	.885	.061	77.1	74.8	2.3	73.9	.90	77.4	79.8	W	0.0					
1 a. m.	.868	.038	77.2	75.0	2.2	74.1	.91	77.6	79.6	„	0.0					
2 „	.856	28.992	77.6	76.0	1.6	75.4	.93	78.0	79.7	W b N	0.1					
3 „	.856	29.018	77.2	75.2	2.0	74.4	.92	77.8	79.7	„	0.0					
4 „	.865	28.994	77.0	76.0	1.0	75.6	.96	77.6	79.5	„	0.0					
5 „	.885	29.020	76.8	75.8	1.0	75.4	.96	77.4	79.4	„	0.0					
6 „	.908	.069	76.4	75.0	1.4	74.4	.94	77.2	79.3	„	0.0					
7 „	.920	.058	77.8	76.0	1.8	75.3	.92	78.4	79.5	E b N	0.0					
8 „	.931	.053	79.5	76.9	2.6	75.9	.89	80.0	79.7	„	0.1					
9 „	.933	.038	80.9	77.7	3.2	75.8	.87	80.8	79.9	E	0.1					
10 „	.931	.053	81.8	77.5	4.3	75.9	.83	81.5	80.1	„	0.1					
11 „	.919	.034	82.2	77.8	4.4	76.1	.83	82.0	80.2	„	0.1	None.	None.	None.	None.	None.
Noon.	.897	.044	83.7	77.4	6.3	75.0	.76	83.2	80.4	SW	0.1					
1 p. m.	.880	28.999	84.8	78.4	6.4	76.0	.76	83.8	80.7	WSW	0.1					
2 „	.859	.985	85.4	78.4	7.0	75.7	.74	84.4	81.0	W b N	0.2					
3 „	.849	.977	85.6	78.4	7.2	75.6	.73	84.5	81.2	WNW	0.2					
4 „	.845	.977	85.2	78.2	7.0	75.5	.74	83.8	81.3	NW b N	0.4					
5 „	.855	29.006	83.3	77.2	6.1	74.8	.76	82.6	81.1	„	0.1					
6 „	.868	.045	81.4	76.0	5.4	73.8	.78	81.4	80.8	NNW	0.1					
7 „	.883	.056	81.0	76.0	5.0	74.0	.80	81.2	80.7	„	0.3					
8 „	.907	.056	80.6	76.5	4.1	74.9	.84	80.9	80.7	N b W	0.4					
9 „	.921	.086	80.3	76.0	4.3	74.3	.83	80.5	80.6	N	0.3					
10 „	.923	.093	80.0	75.8	4.2	74.1	.83	80.2	80.5	„	0.2					
11 „	.922	.070	79.5	76.2	3.3	74.9	.86	79.7	80.5	„	0.1					
Oct. 3rd-Midnight	.900	.040	78.7	76.2	2.5	75.2	.90	78.8	80.3	N	0.0					
1 a. m.	.887	.021	78.2	76.2	2.0	75.4	.92	78.7	80.2	„	0.0					
2 „	.875	.009	78.2	76.2	2.0	75.4	.92	78.9	80.1	„	0.0					
3 „	.868	28.980	78.0	76.7	1.3	76.2	.94	78.8	80.0	„	0.0					
4 „	.873	29.009	77.6	76.0	1.6	75.4	.93	78.3	80.0	„	0.0					
5 „	.884	.020	77.6	76.0	1.6	75.4	.93	78.2	79.8	N b E	0.1					
6 „	.902	.037	76.8	75.8	1.0	75.4	.96	77.3	79.7	NE	0.0	None.	None.	None.	None.	None.
7 „	.917	.031	77.8	76.6	1.2	76.1	.95	78.2	79.7	„	0.1					
8 „	.935	.035	80.4	77.7	2.7	76.6	.89	80.6	80.0	„	0.0					
9 „	.939	.040	81.6	78.0	3.6	76.6	.86	81.4	80.4	„	0.0					
10 „	.936	.040	83.4	78.4	5.0	76.5	.80	83.0	80.6	N b W	0.2					
11 „	.922	.038	84.5	78.4	6.1	76.1	.77	84.0	80.9	„	0.3					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∿ cirri; ∿ cirro-cumuli; ⌒ cumuli; ⌣ cirro-strati; ⌒ cumulo-strati; and ∿ nimbi.	
5	H	∿ scattered about, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°5 and 83°0.
2	L	∿ scattered about hor.; dew falling.	
2	L	∿ scattered about hor. from SE to NW; dew falling.	
2	L	" " " " "	
1	L	∿ scattered here and there around hor.; dew falling	
1	C	" " " " "	
2	C	∿ scattered around hor.	
1	C	" " "	
1	C	" " "	
1	H	⌣ in NE and E above hor.; ∿ around hor.	
1	H	" " " " "	
1	H	∿ around hor.	
2	H	∿ scattered about, moving NE.	
2	L	∿ scattered about hor., moving NE.	
2	L	" " " "	
2	L	" " " "	
2	L	∿ scattered about, moving E.	
4	C	∿ scattered about, moving ENE.	
4	C	" " " "	
3	C	∿ scattered about hor.	
5	C	∿ scattered about, moving E.	
1	H	Masses of ∿ scattered here and there, moving E.	
1	H	" " " "	
1	H	Masses of ∿ around hor., otherwise clear.	
2	H	Masses of ∿ scattered about, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°7 and 83°0. On this day the Barometric range was 0.088in. smallest in the month, Wind blew in a circular motion.
4	L	∿ scattered about; dew falling.	
1	L	∿ scattered about W hor.; dew falling.	
2	L	∿ around hor., except in NE; ∿ above hor. from E to SW; dew falling.	
2	L	∿ around hor., except in N and NE; ∿ in SW and about zth.; dew falling	
2	C	∿ scattered around hor.; ∿ in E, SW, and W.	
2	C	∿ around hor.; ∿ in NW, N, NE, and E above hor.	
2	C	∿ around hor.; ∿ in SW, S, and SE.	
2	C	∿ around hor.; ∿ scattered about zth.	
2	H	∿ around hor.; ∿ in NW and SW; ∿ in E hem. above hor.	
3	H	∿ in hor.; ∿ scattered about; ∿ in NE above hor.	
2	H	∿ around hor.; ∿ scattered in W, S, and NE.	
2	H	∿ scattered above E and W hor.; a few ∿ in S.	
2	L	∿ scattered around hor.; otherwise clear.	
2	L	⌒ in N hor.; ∿ around the remainder of hor.	
2	L	∿ in hor. as before.	
2	L	" " "	
2	C	∿ scattered about, moving E.	
4	C	" " "	
4	C	∿ scattered about, moving SSE.	
4	C	∿ scattered about, moving ESE.	
5	H	∿ scattered about, moving SE.	
4	H	" " "	
6	H	" " "	
2	H	∿ scattered about hor., moving SE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°7 and 83°0.
4	L	∿ scattered about; dew falling.	
3	L	∿ scattered about, moving SSE; dew falling.	
2	L	∿ scattered around hor.; dew falling.	
2	L	∿ around hor.; ∿ scattered in W.	
3	C	∿ around hor., moving SE; ∿ about zth.	
3	C	∿ around hor.; ∿ scattered about zth.	
3	C	∿ around hor.; ∿ scattered in S hem.	
3	C	∿ scattered around hor.; ∿ floating here and there.	
4	C	∿ around hor.; ∿ scattered about, moving SSE.	
4	H	∿ around hor.; ⌣ in E; ∿ scattered in N hem.	
3	H	∿ around hor.; ∿ in E hem.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Oct. 3rd–Noon.	29.893	28.991	85°2	79°0	6°2	76°7	0.76	84°3	81°1	NNW	0.5					
1 p. m.	.865	.968	85.6	79.0	6.6	76.5	.75	84.5	81.2	„	0.6					
2 „	.840	.975	85.8	78.3	7.5	75.4	.72	84.7	81.5	„	0.5					
3 „	.837	.982	85.6	78.0	7.6	75.0	.72	84.5	81.6	„	0.6					
4 „	.832	.962	85.0	78.2	6.8	75.6	.74	84.0	81.5	„	0.5					
5 „	.853	29.000	83.3	77.3	6.0	75.0	.77	82.7	81.5	„	0.3					
6 „	.866	.039	81.0	76.0	5.0	74.0	.80	81.2	81.2	„	0.4	None.	None.	None.	None.	None.
7 „	.891	.057	80.4	76.0	4.4	74.3	.82	80.8	81.0	„	0.2					
8 „	.910	.074	80.2	76.0	4.2	74.3	.83	80.7	80.9	„	0.3					
9 „	.920	.082	80.0	76.0	4.0	74.4	.84	80.4	80.8	„	0.2					
10 „	.916	.074	79.6	76.0	3.6	74.6	.85	80.2	80.7	„	0.2					
11 „	.908	.052	79.8	76.4	3.4	75.1	.86	80.2	80.6	„	0.2					
Oct. 5th–Midnight	.901	.019	77.8	76.5	1.3	76.0	.94	78.3	79.8	NW b N	0.1					
1 a. m.	.890	.021	77.2	76.0	1.2	75.5	.95	78.0	79.6	„	0.1					
2 „	.882	.000	77.4	76.4	1.0	76.0	.96	78.0	79.6	NW	0.0					
3 „	.872	.008	76.9	75.8	1.1	75.4	.95	77.3	79.5	„	0.0					
4 „	.872	.013	76.5	75.5	1.0	74.4	.96	77.2	79.5	„	0.0					
5 „	.885	.025	76.2	75.5	0.7	75.2	.97	77.0	79.3	„	0.0					
6 „	.899	.039	76.2	75.5	0.7	75.2	.97	77.0	79.2	„	0.0					
7 „	.923	.032	78.0	76.8	1.2	76.3	.95	78.6	79.4	„	0.0					
8 „	.934	.044	78.8	77.0	1.8	76.3	.92	79.4	79.5	NNW	0.1					
9 „	.938	.023	81.5	78.4	3.1	77.2	.87	81.4	80.0	NW b N	0.1					
10 „	.936	.024	81.6	78.3	3.3	77.1	.87	81.2	80.1	NW b W	0.2					
11 „	.932	28.964	83.0	80.0	3.0	78.9	.88	82.8	80.5	WNW	0.2					
Noon.	.910	.951	83.8	80.0	3.8	78.6	.85	83.1	80.7	„	0.1	None.	None.	None.	None.	None.
1 p. m.	.874	.901	84.1	80.4	3.7	79.1	.85	83.6	80.8	NW	0.2					
2 „	.845	.875	84.4	80.4	4.0	79.0	.84	83.8	80.9	NW b W	0.2					
3 „	.829	.876	84.4	80.0	4.4	78.4	.83	83.8	81.2	„	0.2					
4 „	.834	.893	84.0	79.6	4.4	78.0	.83	83.6	81.2	„	0.4					
5 „	.841	.949	83.8	78.4	5.4	76.4	.79	81.8	81.5	NW b N	0.2					
6 „	.861	.957	81.2	78.0	3.2	76.8	.87	80.9	81.1	„	0.1					
7 „	.880	.967	80.4	78.0	2.4	77.1	.90	80.4	80.9	„	0.1					
8 „	.903	.986	80.0	78.0	2.0	77.2	.92	80.2	80.8	„	0.1					
9 „	.916	.995	79.6	78.0	1.6	77.4	.93	80.1	80.7	„	0.0					
10 „	.912	.988	79.0	77.9	1.1	77.5	.95	79.7	80.6	„	0.0					
11 „	.899	.985	78.8	77.6	1.2	77.1	.95	79.7	80.5	„	0.0					
Oct. 6th–Midnight	.881	.951	78.8	78.0	0.8	77.7	.97	79.4	80.5	NW b N	0.0					
1 a. m.	.866	.950	78.6	77.6	1.0	77.2	.96	78.9	80.3	„	0.1					
2 „	.856	.932	78.6	77.8	0.8	77.5	.97	79.0	80.3	„	0.1					
3 „	.856	.934	78.8	77.8	1.0	77.4	.96	79.0	80.3	„	0.1					
4 „	.862	.946	78.6	77.6	1.0	77.2	.96	79.0	80.3	„	0.1					
5 „	.880	.985	78.4	77.0	1.4	76.5	.94	79.0	80.3	N b W	0.2					
6 „	.897	29.020	77.2	76.2	1.0	75.8	.96	78.0	80.0	NNE	0.0					
7 „	.926	28.964	79.0	78.8	0.2	78.7	.99	79.7	80.1	„	0.0					
8 „	.945	.997	81.0	79.0	2.0	78.3	.92	81.0	80.4	„	0.1					
9 „	.948	29.008	81.7	79.0	2.7	78.0	.89	82.2	80.6	„	0.1					
10 „	.956	.050	81.0	78.0	3.0	76.8	.88	81.1	80.6	N b W	0.1					
11 „	.928	.005	83.3	79.0	4.3	77.4	.83	82.9	81.0	„	0.1					
Noon.	.898	28.959	84.2	79.6	4.6	78.0	.82	83.6	81.1	NW b N	0.1	None.	None.	None.	None.	None.
1 p. m.	.867	.957	85.2	79.2	6.0	77.0	.77	84.2	81.3	„	0.1					
2 „	.841	.924	85.8	79.5	6.3	77.2	.76	84.8	81.5	NW b W	0.2					
3 „	.826	.889	85.8	80.0	5.8	77.9	.78	85.0	81.7	„	0.2					
4 „	.823	.921	85.2	79.0	6.2	76.7	.76	84.4	81.7	„	0.2					
5 „	.844	.944	84.6	78.8	5.8	76.6	.78	82.8	81.8	„	0.2					
6 „	.856	.921	82.2	79.0	3.2	77.8	.87	81.8	81.6	„	0.2					
7 „	.874	.954	81.2	78.4	2.8	77.3	.89	81.0	81.5	„	0.1					
8 „	.894	.975	80.6	78.2	2.4	77.3	.90	80.8	81.4	„	0.2					
9 „	.899	.986	80.4	78.0	2.4	77.1	.90	80.5	81.2	„	0.2					
10 „	.901	.984	80.0	78.0	2.0	77.2	.92	80.2	81.0	„	0.1					
11 „	.897	.978	79.8	78.0	1.8	77.3	.92	80.2	81.0	„	0.1					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: cirri; cirro-cumuli; cumuli; cirro-strati; cumulo-strati; and nimbi.	
3	H	scattered around hor.; in N hem.; in NE.	
3	H	" " " " "	
3	C	around hor.; scattered about zth.; in NE and E above hor.	
2	C	scattered around hor.; in SW and W.	
2	L	scattered around hor.; above NE and E hor.	
3	L	around hor., and patches of scattered about.	
6	L	" " " " "	
3	L	" " " " "	
5	L	scattered in NE hem., moving WNW.	
6	L	scattered in W hem., moving W.	
3	L	scattered about, moving W.	
8	L	Overcast with dense , moving NW.	
8	C	Overcast with and .	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°7 and 83°0. On this day the range of Air Thermometer was 8°2, the least during the month.
8	H	" " "	
8	H	" " "	
7	H	around hor.; scattered throughout.	
2	H	around hor.; patches of scattered here and there.	
3	L	" " " " " " "	
2	L	around hor.; and in E hem.	
8	L	Overcast with , moving S.	
5	L	scattered around hor.; in W and NW.; and scattered here & there.	
6	C	around hor.; and scattered about.	
6	C	scattered about, moving WSW; in W and NW.	
5	C	in hor. and about zth.; scattered about.	
6	C	scattered about, moving WSW; in W.	
3	H	around hor.; scattered about.	
3	H	" " " "	
2	H	scattered along E hor.; in NW and E above hor.	
2	H	A bank of clouds from E to NW; in W; and along E hor.	
2	L	from N to SW hor.; in N hem. above hor.; in E hem.	
3	L	along E hor.; scattered about; lightning in N and NE.	
2	L	Clouded around hor., otherwise clear.	
2	L	in NE and E; a few others around hor.	
2	C	in NW, N, and NE; a few other clouds around hor.	
2	C	Light in N; a few other clouds around hor.	
1	C	Clouded around hor.	
2	C	around hor.; scattered in E and SE.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°7 and 83°0. The reading of Barometer at 10 A. M. was 29.956, the largest in the month, being about 0.060in. higher than the Normal Mean.
6	H	A bank of clouds around hor.; scattered about.	
8	H	" " " " "	
8	H	around hor.; in W and N; scattered throughout.	
8	H	and around hor.; scattered throughout.	
3	L	and scattered about hor., both moving S.	
3	L	and scattered about hor.; a few in SSW.	
8	L	Overcast with , moving S.	
4	L	scattered about; in NE and E; from NE to SW hor.	
6	C	and scattered about, the former moving S.	
8	C	Densely clouded with and ; a few drops of rain at time of observation.	
3	C	around hor.; moving SSE; scattered about.	
2	C	around hor.; scattered in NW and W.	
2	H	along E hor., and a bank of clouds in the remainder of hor.	
2	H	along E hor., and dense clouds in remainder of hor.	
2	H	A bank of clouds around hor.; a few above SE hor.	
2	H	A bank of clouds around hor., otherwise clear.	
2	L	" " " " "	
2	L	Electrical clouds in hor.; lightning in NE at intervals of 40 seconds.	
1	L	Electrical clouds in hor.; in NE; continuous lightning in E.	
1	L	Clouded as before; lightning in NE at intervals of 1 minute.	
2	C	in hor.; and in W; lightning NE at intervals.	
4	C	Clouded around hor.; no lightning.	
7	C	scattered throughout, except about zth., moving SE.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in seconds between the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Oct. 7th-Midnight	29.879	28.971	79°0	77°5	1°5	76°9	0.94	79°5	80°9	NW b W	0.0					
1 a. m.	.860	.998	77.3	76.0	1.8	75.3	.92	78.7	80.6	„	0.0					
2 „	.845	.994	77.0	75.5	1.5	74.9	.93	78.0	80.4	„	0.0					
3 „	.839	.987	76.6	75.4	1.2	74.9	.95	77.6	80.2	„	0.0					
4 „	.843	.991	76.6	75.4	1.2	74.9	.95	77.5	80.1	NW	0.0					
5 „	.858	.987	77.0	76.0	1.0	75.6	.96	78.0	80.1	„	0.0					
6 „	.888	29.017	77.0	76.0	1.0	75.6	.96	78.0	80.2	„	0.0					
7 „	.898	.021	77.2	76.2	1.0	75.8	.96	78.0	80.0	NE	0.2					
8 „	.913	.025	77.6	76.6	1.0	76.2	.96	78.4	79.9	NE b E	0.3					
9 „	.923	.000	80.1	78.1	2.0	77.4	.92	80.5	80.2	„	0.1					
10 „	.926	28.983	81.8	79.1	2.7	78.1	.89	81.8	80.5	„	0.1					
11 „	.902	.974	82.8	79.0	3.8	77.6	.85	82.6	80.8	„	0.1					
Noon.	.875	.954	83.8	79.1	4.7	77.4	.82	83.3	81.0	NNW	0.1	None.	None.	None.	None.	None.
1 p. m.	.850	.942	84.6	79.0	5.6	76.9	.79	83.8	81.2	NW b N	0.1					
2 „	.826	.912	85.6	79.4	6.2	77.1	.77	84.8	81.4	NW	0.1					
3 „	.808	.873	86.0	80.0	6.0	77.8	.77	85.4	81.7	NW b W	0.1					
4 „	.809	.886	85.6	79.4	6.2	77.4	.77	84.8	81.7	„	0.2					
5 „	.828	.917	84.4	79.0	5.4	77.0	.79	83.0	81.6	„	0.2					
6 „	.842	.924	82.2	78.6	3.6	77.3	.86	82.2	81.6	„	0.1					
7 „	.857	.943	81.4	78.3	3.1	77.1	.87	81.5	81.5	„	0.2					
8 „	.880	.966	81.0	78.2	2.8	77.1	.89	81.2	81.4	„	0.0					
9 „	.893	.980	80.4	78.0	2.4	77.1	.90	80.9	81.3	„	0.0					
10 „	.884	.967	80.0	78.0	2.0	77.2	.92	80.3	81.1	„	0.0					
11 „	.884	.968	79.0	77.7	1.3	77.3	.95	79.5	81.0	„	0.0					
Oct. 8th-Midnight	.880	.952	79.0	78.0	1.0	77.6	.96	88.0	80.9	NW b W	0.0					
1 a. m.	.862	.951	78.8	77.5	1.3	77.0	.95	79.4	80.6	„	0.1					
2 „	.853	.948	78.2	77.2	1.0	76.8	.96	78.8	80.5	„	0.0					
3 „	.853	.948	78.2	77.2	1.0	76.8	.96	78.8	80.5	„	0.0					
4 „	.861	.962	78.0	77.0	1.0	76.6	.96	78.7	80.5	E b N	0.0					
5 „	.867	29.003	77.6	76.0	1.6	75.4	.93	78.7	80.5	N	0.2					
6 „	.872	.023	77.2	76.0	1.2	75.5	.95	78.0	80.2	N b W	0.1					
7 „	.910	28.985	79.3	78.0	1.3	77.5	.95	79.8	80.4	NE	0.2					
8 „	.928	29.013	80.2	78.0	2.2	77.2	.91	80.6	80.5	NE b E	0.1					
9 „	.939	.036	81.6	78.1	3.5	76.7	.86	81.7	80.7	„	0.1					
10 „	.926	.002	83.2	79.0	4.2	77.5	.83	83.0	81.0	„	0.1					
11 „	.895	28.949	85.0	80.0	5.0	78.2	.81	84.2	81.3	NE	0.1	None.	None.	None.	None.	None.
Noon.	.873	.906	85.4	80.6	4.8	78.9	.81	85.0	81.6	NNW	0.4					
1 p. m.	.848	.872	86.2	81.0	5.2	79.2	.80	85.4	81.9	NW b N	0.3					
2 „	.822	.856	86.3	80.8	5.5	78.9	.79	85.5	82.0	„	0.4					
3 „	.806	.830	86.2	81.0	5.2	79.2	.80	85.3	82.2	„	0.4					
4 „	.799	.840	85.8	80.5	5.3	78.6	.80	84.9	82.3	„	0.5					
5 „	.801	.851	84.6	80.0	4.6	78.3	.82	83.7	82.5	„	0.5					
6 „	.820	.858	82.8	79.8	3.0	78.7	.88	82.8	82.2	„	0.2					
7 „	.837	.874	82.0	79.6	2.4	78.8	.90	82.2	82.0	„	0.2					
8 „	.861	.894	81.6	79.6	2.0	78.9	.92	82.0	81.9	„	0.1					
9 „	.895	.909	81.4	80.0	1.4	79.5	.94	81.8	81.9	„	0.0					
10 „	.897	29.003	80.3	77.5	2.8	76.4	.88	80.7	81.7	E b N	0.4					
11 „	.893	.076	78.4	75.0	3.4	73.6	.86	79.1	81.3	„	0.0					
Oct. 9th-Midnight	.877	.034	77.4	75.4	2.0	74.6	.91	78.2	81.0	E b N	0.0					
1 a. m.	.844	.016	77.4	75.0	2.4	74.0	.90	78.2	80.6	„	0.0					
2 „	.844	28.966	77.8	76.4	1.4	75.9	.94	78.5	80.6	„	0.0					
3 „	.846	29.000	77.5	75.5	2.0	74.7	.92	78.0	80.5	ENE	0.1					
4 „	.859	.023	76.6	75.0	1.6	74.3	.93	77.2	80.3	„	0.1					
5 „	.872	.029	76.0	75.0	1.0	74.6	.96	77.0	80.0	E b N	0.1	None.	None.	None.	None.	None.
6 „	.893	.076	75.6	74.2	1.4	73.6	.94	76.6	79.9	„	0.0					
7 „	.917	.089	77.4	75.0	2.4	74.0	.90	78.2	80.0	E	0.1					
8 „	.934	.096	80.0	76.0	4.0	74.4	.84	80.2	80.3	ENE	0.1					
9 „	.940	.052	81.9	77.8	4.1	76.2	.84	81.6	80.5	„	0.1					
10 „	.938	.094	83.0	77.0	6.0	74.6	.77	82.4	80.9	„	0.1					
11 „	.916	.100	83.8	76.5	7.3	73.6	.72	83.2	81.0	„	0.1					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩ cumulo-strati; and ≀ nimbi.	
6	C	≀ scattered throughout, moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 83°1.
4	H	≀ scattered about.	
1	H	≀ around hor.; from N to W.	
1	H	≀ around hor., in W and N above hor.	
6	H	≀ scattered about, moving SE.	
8	L	Overcast with ≀ and ≀, both moving SSE.	
7	L	≀ scattered throughout, moving S; drops of rain at 6h. 48m.	
8	L	Overcast; light rain at 7h. 19m. which ceased at 7h. 42m.	
8	L	∩ along E hor.; ≀ scattered throughout. [SE hor.	
5	C	∩ in E hor.; ≀ scattered about, moving SW; a few ≀ above NE, E, and	
3	C	" " " " " " " "	
6	C	∩ along E hor.; light ≀ scattered throughout, moving SSE.	
4	C	" " " " " "	
4	H	∩ along E hor. and in W; light ≀ scattered about.	
2	H	∩ in hor. as before; ≀ scattered in W hem.	
1	H	∩ in hor. as before; ≀ in E; ≀ scattered in W.	
1	H	∩ along E hor.; ≀ scattered in W hem.	
2	L	∩ around hor.; ⌣ and ≀ in NE and E above hor.	
2	L	∩ around hor.; a few ≀ in SW; continuous lightning in NE.	
1	L	∩ along E hor. from which lightning continually proceeded.	
1	L	A few clouds around hor.; lightning in NE at intervals.	
1	C	" " " " " "	
1	C	" " " " " "	
4	C	≀ scattered about, moving SSE.	
8	C	Overcast with ≀, moving SSE; a few stars visible in W.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 83°1.
5	H	≀ along E hor., in W.	
6	H	≀ scattered about, moving SE.	
7	H	Densely clouded with ≀ and ≀, moving S.	
6	H	≀ scattered throughout, moving SE; thunder in SW, heard at 4h. 25m.	
6	L	≀ and dense ≀ scattered throughout, the former moving NE.	
3	L	≀ around hor.; ≀ scattered about.	
1	L	≀ around hor., except in E; a few ≀ and ≀ scattered here and there.	
1	L	∩ in NE and E hor.; ≀ in NW and NE; ≀ scattered in NW.	
1	C	∩ in NE and E hor.; ≀ scattered about W hem.	
1	C	∩ along E hor.; ≀ in remainder of hor. [scattered here and there.	
1	H	∩ along E hor.; a bank of dense clouds in remainder of hor.; pieces of ≀	
1	C	∩ along E hor.; dense clouds around remainder of hor.	
1	C	∩ along E hor.; dense clouds in remainder of hor.; a few ≀ in N.	
1	H	Electrical ∩ along E hor.	
1	H	∩ from WNW to SE hor.	
1	H	" " "	
1	L	" " "	
1	L	∩ in hor. from NW to SE; continuous lightning in E after 6h. 15m.	
1	L	∩ in hor.; continuous lightning in NE and E.	
1	L	∩ in hor.; a few masses of ≀ in SW; continuous lightning in E.	
1	C	∩ in hor.; ≀ in S and W; continuous lightning in E.	
2	C	≀ scattered in NE, E, and SE, moving W.	
2	C	≀ scattered about; a few ≀ in E.	
1	C	A few clouds around hor.; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 83°0.
1	H	" " " "	
1	H	" " " "	
0	H	A few clouds in hor. from SW to NW; dew falling.	
0	H	≀ scattered here and there, moving W; dew falling.	
1	L	A few clouds around hor.; dew falling. [moving NW.	
2	L	⌣ in NE and E; ∩ from S to NW hor.; ≀ in NE and E; ≀ in W,	
1	L	∩ around hor.; light mist in NW and N.	
1	L	∩ around hor.; ≀ in SW; light mist in NW and N.	
1	C	∩ around hor.; ⌣ in NE and E.	
1	C	∩ in NE and SW; ⌣ in NE; light ≀ in E.	
1	C	∩ in NE, E, and W hor.; ⌣ in E hor.; ≀ scattered in E and W.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Interval of Time between the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Oct. 9th–Noon.	29.885	29.035	85°0	77°7	7°3	74°9	0.73	83°8	81°3	ENE	0.0					
1 p. m.	.860	28.980	86.4	78.8	7.6	75.9	.72	85.2	81.6	NW b W	0.1					
2 „	.839	.951	87.2	79.2	8.0	76.2	.71	86.6	81.8	„	0.2					
3 „	.816	.874	88.0	80.7	7.3	78.1	.73	87.2	82.2	NW b N	0.2					
4 „	.811	.894	87.6	80.0	7.6	77.2	.72	87.7	82.4	„	0.2					
5 „	.819	.910	86.0	79.4	6.6	76.9	.75	84.8	82.7	„	0.2	None.	None.	None.	None.	None.
6 „	.832	.896	83.6	79.4	4.2	77.9	.84	83.6	82.3	NNW	0.2					
7 „	.873	.905	83.0	80.0	3.0	78.9	.88	83.0	82.2	„	0.0					
8 „	.912	.954	81.6	79.4	2.2	78.6	.91	81.9	82.0	„	0.0					
9 „	.916	.936	81.2	79.8	1.4	79.3	.94	81.8	81.9	„	0.0					
10 „	.921	.935	81.4	80.0	1.4	79.5	.94	82.0	81.9	„	0.0					
11 „	.915	.950	80.6	79.3	1.3	78.8	.95	81.2	81.7	„	0.0					
Oct. 10th–Midnight	.913	.933	80.4	79.6	0.8	79.3	.97	81.2	81.6	NNW	0.0	0.52				
1 a. m.	.899	29.087	76.0	74.2	1.8	73.4	.92	77.0	80.8	E b S	0.0	0.32				
2 „	.891	.074	75.6	74.2	1.4	73.6	.94	76.4	80.5	ENE	0.1					
3 „	.875	.061	75.2	74.0	1.2	73.5	.95	76.4	80.3	N b E	0.1					
4 „	.878	.061	75.6	74.2	1.4	73.6	.94	76.4	80.2	E b N	0.1					
5 „	.898	.121	75.2	73.0	2.2	72.0	.90	76.2	80.2	„	0.1					
6 „	.914	.084	75.8	74.6	1.2	74.1	.95	76.6	79.9	„	0.2					
7 „	.934	.067	77.4	76.0	1.4	75.5	.94	78.2	80.0	ENE	0.1					
8 „	.943	.080	79.5	76.5	3.0	75.3	.88	79.9	80.3	„	0.2					
9 „	.952	.069	80.6	77.3	3.3	76.0	.87	81.0	80.5	E	0.1					
10 „	.952	.057	82.0	78.0	4.0	76.5	.84	82.0	80.7	E b N	0.0					
11 „	.929	.015	84.1	79.0	5.1	77.1	.80	83.7	81.0	E	0.1					
Noon.	.898	28.956	85.4	80.0	5.4	78.1	.80	84.4	81.5	N	0.1					
1 p. m.	.869	.967	85.2	79.0	6.2	76.7	.76	84.4	81.5	N b W	0.1		None.	None.	None.	None.
2 „	.849	.972	85.6	78.5	7.1	75.8	.74	85.0	81.7	NNW	0.3					
3 „	.828	.834	87.0	81.6	5.4	79.8	.80	86.1	82.0	„	0.2					
4 „	.829	.804	87.4	82.4	5.0	80.7	.81	88.8	82.3	„	0.2					
5 „	.840	.920	86.6	79.8	6.8	77.3	.75	84.7	82.3	ENE	0.1					
6 „	.851	.870	83.8	80.5	3.3	79.3	.87	83.3	82.1	N b W	0.1					
7 „	.870	.881	83.0	80.5	2.5	79.6	.90	82.7	82.0	„	0.1					
8 „	.886	.911	82.4	80.0	2.4	79.2	.90	82.2	82.0	N	0.1					
9 „	.887	.906	81.8	80.0	1.8	79.4	.93	82.0	82.0	N b W	0.1					
10 „	.890	.928	81.2	79.4	1.8	78.7	.93	81.5	81.8	„	0.1					
11 „	.877	.925	80.6	79.0	1.6	78.4	.93	81.0	81.6	„	0.0					
Oct. 12th–Midnight	.851	29.084	77.4	73.4	4.0	71.6	.83	78.2	81.1	N b W	0.0					
1 a. m.	.831	.092	76.6	72.4	4.2	70.5	.82	77.8	80.9	„	0.0					
2 „	.827	.040	77.6	74.0	3.6	72.5	.85	78.5	80.7	NE	0.0					
3 „	.826	.032	78.0	74.3	3.7	72.8	.85	78.2	80.7	E b N	0.1					
4 „	.828	.051	77.2	73.6	3.6	72.0	.85	77.7	80.5	ENE	0.0					
5 „	.842	28.967	75.2	70.6	4.6	68.3	.80	76.4	80.0	NE b E	0.0					
6 „	.855	29.132	74.8	71.4	3.4	69.8	.85	75.8	79.8	„	0.0					
7 „	.868	.137	76.0	72.0	4.0	70.2	.83	77.0	79.8	„	0.2					
8 „	.885	.105	79.0	74.2	4.8	72.1	.80	79.2	80.0	ENE	0.2					
9 „	.897	.140	80.4	74.0	6.4	71.3	.75	80.8	80.3	„	0.1					
10 „	.891	.139	82.2	74.4	4.8	71.1	.70	81.9	80.5	„	0.1					
11 „	.871	.086	83.6	75.8	7.8	72.6	.71	83.0	80.8	„	0.1					
Noon.	.848	.106	85.2	75.0	10.2	70.6	.63	84.2	81.2	„	0.1					
1 p. m.	.823	.052	86.1	76.0	10.1	71.8	.63	84.4	81.3	NE b E	0.0	None.	None.	None.	None.	None.
2 „	.803	.015	87.4	77.4	10.0	72.5	.64	86.2	81.6	NW b N	0.1					
3 „	.783	28.945	87.2	78.0	9.2	74.4	.67	86.4	81.9	„	0.4					
4 „	.781	.905	87.2	78.9	8.3	75.8	.70	86.0	82.0	„	0.5					
5 „	.790	.917	84.0	78.0	6.0	75.7	.77	83.2	82.0	„	0.4					
6 „	.805	.934	82.0	77.4	4.6	75.6	.82	81.0	81.7	„	0.2					
7 „	.815	.943	81.2	77.2	4.0	75.6	.84	81.5	81.5	„	0.1					
8 „	.828	.960	80.8	77.0	3.8	75.5	.85	81.0	81.4	N b W	0.2					
9 „	.840	.944	80.4	77.6	2.8	76.5	.88	80.9	81.4	„	0.1					
10 „	.839	.979	79.4	76.4	3.0	75.2	.88	79.7	81.1	„	0.0					
11 „	.837	.993	78.4	75.7	2.7	74.6	.89	79.3	80.9	„	0.0					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩ cumulo-strati; and ≀≀ nimbi.	
1	C	∩ in hor. from W to SE; light ≀ scattered in E and W.	
1	H	∩ in hor. as before; dense clouds in SE, S, and SW hor.	
1	H	" " " " " "	
1	H	∩ in hor. from NW to SE; ≀ in W; dense clouds in SE and SW hor.	
1	H	∩ around hor.; ≀ scattered about zth.	
1	L	∩ around hor.; ≀ scattered in W hem. [after 6h. 2m,	
1	L	Electrical ∩ arranged in hor. from NW to SE; vivid flashes of lightning	
1	L	Electrical ∩ in hor. as before; vivid lightning continually in NW and E at	
1	L	∩ in hor.; continuous lightning in NE. [intervals of 50s.	
0	C	∩ in hor.; continuous lightning in NE and E.	
0	C	" " " " " [falling.	
1	C	≀≀ scattered around hor., moving WSW; continuous lightning in NE; dew	
		[and rain at 0h. 50m.	
8	C	Overcast with ≀≀; lightning & thunder in NNE after 0h. 48m.; fresh breezes,	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 83°0. Daily fall of rain by Osler's Gauge 0.84. Maximum Tension of Electricity by Henly's Apparatus 4.0. Maximum Length of Spark by Ronald's Measure 0.02. The Temperature of Evaporation at 4 P. M. was 82°4, greatest in the month, being about 4°4 higher than the Normal Mean; at the same hour the calculated Dew-point was 80°7, greatest in the month.
8	H	Overcast; lightning and thunder in NNE and NW; rain ceased at 1h. 52m.	
8	H	Overcast with ≀≀ and ≀≀; a few stars visible here and there.	
8	H	Overcast; a few stars dimly visible.	
8	H	" " " "	
6	L	Dense ≀≀ scattered about.	
8	L	≀≀ and ≀ scattered throughout.	
7	L	" " "	
7	L	∩ in NE and S hor.; ≀ scattered throughout; a few patches of ≀≀ in N.	
6	C	∩ and ⌣ in NE and E; ≀ scattered throughout.	
4	C	∩ in NE and E hor.; ⌣ in NW; ≀ scattered about. [throughout.	
5	C	∩ in NE and E hor.; ≀≀ in SW, SE, and about zth., moving NW; ≀ scattered	
3	C	∩ in hor. from N to S; ≀≀ in SE and S; ≀ scattered about.	
2	H	∩ along E hor.; ≀ scattered about.	
2	H	∩ along E hor.; ≀≀ in W; ≀ scattered about.	
2	H	Clouded as before. [W, NW, and N.	
2	H	Electrical ∩ along E hor.; ∩ in E, SE, and SW above hor.; ≀ scattered in	
6	H	∩ in hor. as before; ≀≀ and ≀≀ scattered throughout, both moving S.	
2	H	∩ along E hor.; ≀ in NE and W hor.; dense clouds about remainder of hor.	
1	H	Clouded around hor.; lightning in NE, at intervals of about 7 minutes.	
1	H	Clouded around hor.; lightning in SE.	
1	H	Clear, except in hor.	
1	H	" "	
1	H	" "	
0	C	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°3 and 83°0.
0	H	" "	
1	H	A few clouds around hor.; dew falling.	
1	H	" " " "	
1	H	" " " "	
3	L	≀ scattered about; mist along W hor.	
4	L	≀ scattered in E hem.; mist in hor. as before.	
3	L	" " " " "	
2	L	" " " " "	
2	C	≀ scattered about.	
2	C	" "	
2	C	" "	
3	C	" "	
4	H	" "	
4	H	∩ along E hor.; ≀ scattered about.	
4	H	" " " "	
4	H	" " " "	
4	L	" " " "	
4	L	≀ scattered about.	
0	L	Clear, except in hor.	
1	L	≀ scattered in E hem.	
1	L	" "	
1	L	" "	
0	C	Clear, except in hor.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering some degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Oct. 13th-Midnight	29.827	29.087	77°5	72°7	4°8	70°6	0.80	78°6	80°6	NE b N	0.2					
1 a. m.	.817	.015	78.0	74.5	3.5	73.1	.85	78.3	80.5	E b N	0.2					
2 „	.802	28.994	77.5	74.5	3.0	73.2	.87	78.2	80.4	„	0.1					
3 „	.790	29.096	76.7	71.2	5.5	68.6	.77	77.5	80.1	ENE	0.1					
4 „	.792	.136	76.4	70.0	6.4	66.8	.73	77.0	80.0	„	0.6					
5 „	.796	.108	76.6	71.0	5.6	68.3	.77	76.8	79.8	NE b E	0.2					
6 „	.821	.118	76.6	71.4	5.2	69.0	.78	76.8	79.7	„	0.1					
7 „	.825	.105	77.0	72.0	5.0	69.7	.79	77.2	79.7	E b N	0.3					
8 „	.840	.131	78.0	72.0	6.0	69.2	.76	78.4	79.7	„	0.3					
9 „	.850	.177	78.0	71.0	7.0	67.6	.72	78.4	79.7	NE b E	0.3					
10 „	.858	.227	78.6	70.0	8.6	65.6	.66	79.1	79.7	„	0.1					
11 „	.836	.136	80.5	72.5	8.0	68.9	.69	80.9	79.9	„	0.0	None.	None.	None.	None.	None.
Noon.	.804	.113	83.8	73.0	10.8	68.5	.61	84.0	80.4	N	0.1					
1 p. m.	.781	.124	86.0	73.0	13.0	66.9	.54	85.8	80.9	„	0.1					
2 „	.767	.071	87.7	74.5	13.2	68.6	.55	86.4	81.3	N b W	0.1					
3 „	.757	28.959	87.2	77.0	10.2	72.9	.64	86.2	81.5	„	0.2					
4 „	.757	.931	86.5	77.5	9.0	74.0	.67	85.0	81.6	„	0.3					
5 „	.764	.946	84.6	76.8	7.8	73.7	.71	83.6	81.5	„	0.3					
6 „	.776	.981	81.8	75.4	6.4	72.8	.75	81.4	81.2	„	0.4					
7 „	.794	.973	80.8	75.8	5.0	73.8	.80	80.7	81.0	N	0.3					
8 „	.815	.992	80.0	75.6	4.4	73.8	.82	80.4	80.8	N b W	0.3					
9 „	.828	29.016	79.2	75.1	4.1	73.4	.83	79.6	80.6	N	0.1					
10 „	.829	.106	77.4	72.2	5.2	69.8	.79	78.2	80.4	„	0.1					
11 „	.828	.071	77.0	73.0	4.0	71.2	.83	77.6	80.2	„	0.0					
Oct. 14th-Midnight	.825	.102	76.4	71.9	4.5	69.8	.81	76.9	80.0	N b E	0.0					
1 a. m.	.812	.117	76.0	71.0	5.0	68.6	.79	76.9	79.7	NE b N	0.1					
2 „	.808	.078	77.4	72.4	5.0	70.1	.79	77.6	79.7	E b N	0.1					
3 „	.809	.074	76.9	72.4	4.5	70.3	.81	77.2	79.6	„	0.1					
4 „	.811	.120	76.4	71.0	5.4	68.4	.78	77.0	79.5	ENE	0.1					
5 „	.829	.174	75.8	69.8	6.0	66.8	.75	75.6	79.3	„	0.0					
6 „	.852	.153	75.6	71.0	4.6	68.8	.80	76.2	79.1	„	0.0					
7 „	.886	.194	76.3	71.0	5.3	68.5	.78	76.8	79.0	NE b E	0.0					
8 „	.912	.196	77.4	72.0	5.4	69.5	.78	77.8	79.2	„	0.3					
9 „	.936	.196	78.2	72.9	5.3	70.6	.78	78.6	79.4	„	0.1					
10 „	.935	.209	79.4	72.9	6.5	69.9	.74	80.1	79.5	ENE	0.0					
11 „	.919	.127	82.4	75.5	6.9	72.7	.73	82.8	79.9	„	0.2					
Noon.	.895	.125	83.4	75.2	8.2	71.8	.69	83.6	80.4	„	0.1		None.	None.	None.	None.
1 p. m.	.870	.124	83.8	74.7	9.1	70.8	.66	83.6	80.5	NE b N	0.1					
2 „	.838	.051	84.6	76.0	8.6	72.5	.68	84.7	80.8	N	0.1					
3 „	.822	28.962	85.2	78.0	7.2	75.2	.73	84.9	81.1	NNE	0.1					
4 „	.832	29.013	84.2	76.7	7.5	73.7	.72	83.9	81.1	„	0.1					
5 „	.841	28.970	82.7	77.6	5.1	75.6	.80	82.3	81.1	„	0.1					
6 „	.860	.963	81.8	78.0	3.8	76.5	.85	81.6	81.0	N b W	0.2					
7 „	.886	.973	81.5	78.3	3.2	77.1	.87	81.6	81.0	NNW	0.5					
8 „	.942	29.138	75.4	73.8	1.6	73.1	.93	76.4	80.1	SSW	0.8	0.24				
9 „	.958	.153	75.3	73.8	1.5	73.2	.93	76.2	79.8	„	0.2	0.02				
10 „	.961	.134	75.4	74.4	1.0	74.0	.96	76.4	79.8	SW b S	0.1					
11 „	.939	.112	75.8	74.5	1.3	74.0	.94	76.8	79.6	„	0.1					
Oct. 15th-Midnight	.931	.112	75.4	74.2	1.2	73.7	.95	76.3	79.5	SW b S	0.0					
1 a. m.	.905	.098	75.2	73.8	1.4	73.2	.94	75.8	79.4	NNW	0.0					
2 „	.886	.063	75.4	74.3	1.1	73.8	.95	76.2	79.2	N	0.0					
3 „	.879	.034	75.8	75.0	0.8	74.7	.97	76.3	79.2	NNE	0.0					
4 „	.874	.020	76.4	75.4	1.0	75.0	.96	76.9	79.2	NE	0.0					
5 „	.875	.021	76.4	75.4	1.0	75.0	.96	77.0	79.2	„	0.0					
6 „	.886	.045	76.2	75.0	1.2	74.5	.95	76.8	79.1	ENE	0.2	None.	None.	None.	None.	None.
7 „	.910	.048	77.8	76.0	1.8	75.3	.92	78.5	79.3	„	0.0					
8 „	.929	.057	79.4	76.7	2.7	75.6	.89	79.6	79.7	„	0.0					
9 „	.937	.042	82.0	78.0	4.0	76.5	.84	82.1	80.1	„	0.0					
10 „	.931	.050	83.3	78.0	5.3	76.0	.79	83.2	80.5	„	0.0					
11 „	.911	.049	85.0	78.0	7.0	75.3	.74	84.8	80.8	„	0.0					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤≤ cirro-cumuli; ∩ cumuli; ∪ cirro-strati; ∩∪ cumulo-strati; and ≤∪ nimbi.	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 82°8.
0	H	"	
0	H	"	
1	H	Clear; dew falling.	
1	H	Clear; dew falling; a faint lunar-halo.	
3	L	Dense ≤ scattered about.	
8	L	≤ scattered about; mist along W hor.	
8	L	A few ≤≤ in NW; ≤ scattered about; mist along W hor.	
8	L	≤ and ≤≤ scattered about as before; mist in SW, W, and NW hor.	
6	C	≤ and ≤≤ scattered throughout.	
7	C	" " "	
6	C	" " "	
5	C	" " "	
5	H	∩ in E; ≤ scattered about.	
5	H	∩ along E hor.; ≤≤ and ≤ scattered about.	
3	H	" " " " "	
3	H	" " " " "	
3	L	∩ in E; ≤ scattered about.	
1	L	≤ scattered around hor.	
1	L	" " "	
1	L	" " "	
1	C	≤ scattered about hor. from NE to SW.	
2	C	Light ≤ scattered about.	
2	C	≤ scattered in E hem.	
2	C	≤ scattered about hor.; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 82°8. Daily fall of rain by Osler's Gauge 0.28. On the 14th, at 7h. 30m., a squall came on from SE towards E.
2	H	≤ scattered about hor.	
1	H	Clear, except in hor.	
1	H	" "	
1	H	≤ scattered in E.	
1	L	A few clouds around hor. [hor.; mist in NW and W hor.	
1	L	∩ in E and W hor.; ∪ along E hor.; ≤≤ scattered in N and W about E	
7	L	∩ along E hor.; ≤≤ scattered throughout, moving W; mist in W and NW hor.	
8	L	∩ in E hor.; ≤≤ scattered throughout, moving W; mist along W hor.	
8	C	∩ in E hor.; and ≤≤ scattered throughout, moving W; mist in W hor.	
8	C	Clouded as before.	
8	C	" "	
8	C	" "	
8	H	" "	
8	H	" "	
7	H	" "	
8	H	" "	
8	L	∩ in hor.; ≤≤ scattered throughout, moving SSE. [rain at 7h. 20m.	
8	L	" " " " " " [SSW after 7h. 55m.,	
8	L	Overcast with ≤∪, moving SSE; lightning in SE after 7h. 20m.; thunder in	
8	L	Overcast with ≤∪, moving E; occasional thunder & lightning in S; raining.	
8	C	Overcast; lightning in SW at intervals; raining lightly.	
8	C	Overcast; rain ceased at 10h. 5m.	
8	C	Overcast.	
2	C	Light ≤∪ and ≤ about hor.; moving E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 82°8.
2	H	" " " "	
3	H	≤ around hor.; small patches of ≤∪ scattered here and there.	
2	H	≤ and ≤∪ scattered about hor., moving E.	
3	H	≤∪ and ≤≤ scattered about hor., moving E.	
5	L	≤∪ around hor.; ≤≤ in W hem.	
8	L	Overcast with ≤≤.	
7	L	Densely clouded with ≤∪; breaks in SE, W, and NW.	
3	L	A few masses of ≤∪ in SW and W; ≤ about zth.; ≤≤ scattered about.	
3	C	∩ along E hor.; ≤≤ scattered about.	
2	C	A few ≤ in W; ∩ along E hor.; ≤≤ scattered about.	
2	C	" " " " "	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Oct. 15th-Noon.	29.884	28.933	86°1	80°4	5°7	78°4	0.78	85°3	81°1	NW b N	0.0					
1 p.m.	.853	.962	86.2	79.0	7.2	76.3	.73	85.4	81.4	NNW	0.1					
2 „	.827	.962	85.5	78.2	7.3	75.4	.73	85.0	81.5	NW b N	0.2					
3 „	.813	.890	85.2	79.5	5.7	77.4	.78	84.9	81.6	NNW	0.2					
4 „	.804	.906	82.5	78.2	4.3	76.6	.83	82.5	81.4	„	0.3					
5 „	.805	.895	81.4	78.2	3.2	77.0	.87	82.2	81.3	„	0.2					
6 „	.814	.925	80.4	77.4	3.0	76.3	.88	80.9	81.0	„	0.4	None.	+	1	None.	Above 10m.
7 „	.845	.968	80.0	77.0	3.0	75.8	.88	80.6	80.9	„	0.2					
8 „	.861	.963	80.2	77.6	2.6	76.6	.89	80.8	80.9	„	0.3					
9 „	.881	.964	80.0	78.0	2.0	77.2	.92	80.6	80.9	N b W	0.0					
10 „	.881	29.036	79.4	76.0	3.4	74.7	.86	80.1	80.8	NNE	0.0					
11 „	.869	.034	78.5	75.5	3.0	74.3	.88	78.9	80.6	NE	0.1					
Oct. 16th-Midnight	.849	.013	78.0	75.4	2.6	74.3	.89	78.8	80.4	NE b E	0.2					
1 a.m.	.827	.002	77.6	75.0	2.6	73.9	.89	78.1	80.1	„	0.4					
2 „	.810	28.996	77.2	74.6	2.6	73.5	.89	77.8	80.0	„	0.4					
3 „	.801	.971	77.2	75.0	2.2	74.1	.91	77.8	80.0	„	0.2					
4 „	.801	.967	77.2	75.1	2.1	74.3	.91	77.8	80.0	E b N	0.3					
5 „	.808	.963	77.2	75.4	1.8	74.7	.92	77.9	79.9	ENE	0.2					
6 „	.821	.981	77.0	75.2	1.8	74.5	.92	77.6	79.7	„	0.2					
7 „	.842	.958	79.4	77.0	2.4	76.1	.90	80.0	80.0	„	0.1					
8 „	.859	.963	81.2	77.8	3.4	76.5	.86	81.2	80.3	E b N	0.2					
9 „	.875	.968	82.4	78.4	4.0	76.9	.84	82.2	80.5	„	0.1					
10 „	.867	.977	83.2	78.2	5.0	76.3	.80	83.2	80.9	„	0.1					
11 „	.848	.892	86.0	80.5	5.5	78.5	.79	85.0	81.5	„	0.2					
Noon.	.821	.860	85.6	80.5	5.1	78.7	.80	85.6	81.5	„	0.1					
1 p.m.	.787	.884	87.0	79.5	7.5	76.7	.72	86.6	81.9	„	0.0	None.				
2 „	.760	.883	88.2	79.2	9.0	75.8	.68	87.7	82.1	„	0.0					
3 „	.734	.791	89.2	81.0	8.2	78.1	.71	88.0	82.5	W b N	0.1					
4 „	.731	.762	88.4	81.4	7.0	79.0	.74	87.3	82.6	„	0.2					
5 „	.762	.798	85.3	80.5	4.8	78.8	.81	85.2	82.4	NW b N	0.4					
6 „	.766	.833	82.4	79.0	3.4	77.8	.86	82.7	82.3	NNW	0.5					
7 „	.808	.925	81.6	77.6	4.0	74.2	.84	82.1	82.0	N	0.8					
8 „	.868	29.096	79.0	74.0	5.0	71.8	.80	79.2	81.6	SE b E	1.5		—	Out of Sc.	Out of Sc.	Instantly.
9 „	.843	.038	77.8	74.5	3.3	73.2	.86	78.7	81.1	NE	0.5					
10 „	.849	.059	77.4	74.0	3.4	72.6	.86	78.2	80.8	NE b E	0.3		+	2		2.45
11 „	.847	.031	76.4	74.4	2.0	73.6	.91	77.1	80.5	E b N	0.4		+	2		4.30
Oct. 19th-Midnight	.856	28.957	78.0	77.0	1.0	76.6	.96	79.2	80.7	W	0.0					
1 a.m.	.844	.943	77.8	77.0	0.8	76.7	.97	78.9	80.5	„	0.0					
2 „	.833	.949	77.2	76.4	0.8	76.1	.97	78.2	80.5	„	0.0					
3 „	.835	.951	77.2	76.4	0.8	76.1	.97	78.2	80.4	W b S	0.0					
4 „	.839	.953	77.2	76.5	0.7	76.1	.97	78.2	80.3	„	0.0					
5 „	.859	.970	77.2	76.6	0.6	76.3	.99	78.0	80.2	„	0.0					
6 „	.879	.958	77.8	77.5	0.3	77.4	.99	78.5	80.3	„	0.0					
7 „	.912	.980	78.6	78.0	0.6	77.7	.99	79.0	80.4	„	0.2					
8 „	.929	.962	80.0	79.2	0.8	78.9	.99	80.6	80.5	WSW	0.1					
9 „	.938	.998	81.7	79.0	2.7	78.0	.89	82.2	80.8	SW b W	0.1					
10 „	.929	.977	82.2	79.4	2.8	78.4	.89	82.3	81.0	„	0.1		—	6		1.28
11 „	.906	.980	83.0	79.0	4.0	77.5	.84	82.8	81.3	„	0.1		—	Out of Sc.	35	0.38
Noon.	.877	.966	84.4	79.0	5.4	77.0	.79	84.0	81.5	„	0.1					
1 p.m.	.845	.922	85.6	79.6	6.0	77.4	.77	84.9	81.7	NW	0.1					
2 „	.819	.912	86.2	79.4	6.8	76.9	.75	85.2	81.9	NW b N	0.1					
3 „	.807	.873	86.1	80.0	6.1	77.3	.77	85.2	82.1	„	0.3					
4 „	.800	.893	86.2	79.4	6.8	76.9	.75	85.4	82.2	„	0.2					
5 „	.805	.857	84.8	80.0	4.8	78.3	.81	84.2	82.2	„	0.3					
6 „	.830	.887	82.6	79.3	3.3	78.1	.87	83.0	82.0	NNW	0.1					
7 „	.876	29.016	81.5	77.0	4.5	75.2	.82	81.6	81.7	E	0.3		—	Out of Sc.	Out of Sc.	Instantly.
8 „	.878	.121	77.0	73.0	4.0	71.2	.83	77.6	81.0	N	0.1		—	Out of Sc.	Out of Sc.	Instantly.
9 „	.900	.084	76.8	74.5	2.3	73.6	.90	77.5	80.6	„	0.0	0.03	—	Out of Sc.	Out of Sc.	Instantly.
10 „	.891	.024	77.4	76.0	1.4	75.5	.94	78.2	80.6	S	0.1	0.03	—	3		Above 10m.
11 „	.878	.016	77.8	76.0	1.8	75.3	.92	78.8	80.6	SW b W	0.2					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤≤ cirro-cumuli; ⌒ cumuli; ⌣ cirro-strati; ⌒⌣ cumulo-strati; and ≤⌣ nimbi.	
3	C	⌒ along E hor.; ≤≤ scattered in E hem.; ≤ in NW and W hor.	
4	H	⌒ along E hor.; ≤≤ scattered about.	
6	H	≤≤ scattered throughout, and a bank of clouds around hor.	
6	H	Clouded as before.	
7	H	" "	
7	L	" "	
4	L	≤≤ and ≤ scattered throughout; lightning in N at intervals of 1m. and 25s.	
3	L	≤≤ and ≤ scattered around hor.; lightning along E hor. for every minute.	
3	L	Patches of ≤≤ and ≤⌣ scattered; lightning in NE at intervals of 45s. [40s.	
7	C	≤⌣ and ≤ scattered, the ≤⌣, moving W; lightning in SE and S at intervals of	
3	C	≤⌣ around hor.; ≤ scattered about; lightning in S at intervals of 40s.	
3	C	≤ and ≤⌣ about hor., the latter moving W; lightning in S at intervals of 4m.	
4	C	A few patches of ≤≤ about zth.; ≤ scattered about; lightning in SW at inter-	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 82°8. Maximum Tension of Electricity by Henly's Apparatus, 4.; Maximum Length of Spark by Ronald's Measure 0.05; the height of Barometer at 4 P. M. was 29.731, least during the month, being about 0.070in. lower than the Normal Mean, and its daily range was 0.144, largest in the month.
1	H	≤ scattered about hor.; lightning in SW at intervals of 3m. [vals of 3m.	
1	H	≤ scattered about hor., otherwise clear.	
0	H	Clear, except a few clouds in hor.	
0	H	" " " "	
3	L	≤≤ scattered about	
2	L	" "	
4	L	≤ scattered about hor.	
2	L	" "	
3	C	⌒ in E hor.; a few ≤≤ about zth.; light ≤ scattered about.	
2	C	⌒ along E hor., ≤ scattered about.	
3	C	Clouded as before.	
3	C	" "	
2	H	⌒ around hor.; ≤ and ≤≤ scattered here and there.	
2	H	Clouded as before.	
2	H	" "	
2	H	" "	
2	C	⌒ around hor.; ≤ scattered.	
2	C	Clouded as before; lightning in E for every minute.	
3	C	" " " " "	
8	C	⌒⌣ scattered thoughout; continuous lightning along E hor.	
7	C	" " " " "	
6	C	≤≤ scattered throughout, moving W.	
6	C	" " "	
2	C	Clouded around hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 82°8. Daily fall of rain by Osler's Gauge 0.06. Maximum Tension of Electricity by Henly's Apparatus 10.; Maximum Length of Spark by Ronald's Measure 0.12; on the 18th, the direction of Wind was circular.
1	H	A few clouds around hor.; dew falling.	
1	H	" " " "	
1	H	" " " "	
1	H	" " " "	
4	L	≤⌣ around hor.; ≤≤ in E; ≤ scattered about; dew falling.	
6	L	≤⌣ around hor.; ≤≤ and ≤ scattered throughout.	
7	L	≤⌣ around hor.; ≤≤ scattered throughout.	
8	L	⌒ around hor.; ≤≤ scattered throughout.	
8	C	⌒ around hor.; ≤ and ≤≤ scattered throughout.	
6	C	⌒ around hor.; ≤≤ in N; ≤ scattered about.	
5	C	⌒ in hor.; ≤ scattered about.	
4	C	" " "	
5	H	⌒ in hor.; from NW to SE; ≤ and ≤≤ scattered about.	
4	H	Clouded as before.	
4	H	" "	
5	H	Clouded as before; thunder in ESE at 4h. 5m.	
7	L	⌒ in hor.; scattered throughout; a partial rainbow in E; thunder in NE.	
7	L	Clouded as before; lightning and thunder in NE. [of rain falling.	
8	L	Overcast with ≤⌣, moving E; lightning and thunder from N to E hor.; drops	
8	L	Overcast; lightning and thunder from NE to S hor.; light rain at full hours.	
8	C	Overcast; lightning in NE and E; raining lightly.	
8	C	Overcast; lightning in SE, S, and SW; rain ceased at 10h. 17m.	
8	C	Overcast with ≤⌣, moving NE; lightning in SW.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Oct. 20th-Midnight	29.850	28.994	77°6	75°8	1°8	75°1	0.92	78°3	80°5	SW b W	0.0					
1 a. m.	.838	.971	77.4	76.0	1.4	75.5	.94	78.2	80.4	SW	0.0					
2 „	.830	.969	77.2	75.8	1.4	75.2	.94	78.2	80.3	„	0.0					
3 „	.824	.954	77.1	76.0	1.1	75 6	.95	78.2	80.2	SW b W	0.0					
4 „	.831	.992	76.4	75.0	1.4	74.5	.94	77.4	80.0	„	0.0					
5 „	.842	.980	76.4	75.6	0.8	75.3	.97	77.5	79.7	SW	0.0					
6 „	.859	29.003	76.2	75.4	0.8	75.1	.97	77.2	79.8	„	0.0					
7 „	.875	28.964	78.4	77.4	1.0	77.0	.96	79.2	80.0	SW b W	0.0		—	1		Above 10m.
8 „	.892	.965	80.6	78.4	2.2	77.6	.91	80.8	80.4	„	0.0		—	4		0.15
9 „	.913	.957	81.8	79.4	2.4	78.5	.90	82.1	80.6	„	0.0		—	1		2.27
10 „	.900	.935	82.9	79.9	3.0	78.8	.88	82.9	80.9	N	0.1		—	2		0.50
11 „	.879	.912	84.3	80.3	4.0	78.9	.84	84.0	81.3	„	0.1					
Noon.	.856	.879	84.8	80.9	3.9	79.5	.85	84.2	81.5	„	0.2	None.				
1 p. m.	.828	.862	85.5	80.6	4.9	78.9	.81	85.0	81.7	NW b N	0.2					
2 „	.819	.882	85.8	80.0	5.8	77.9	.78	85.2	81.9	NW	0.2					
3 „	.797	.878	86.0	79.6	6.4	77.3	.76	85.3	82.0	„	0.2					
4 „	.797	.902	85.8	79.0	6.8	76.5	.75	85.3	82.1	NW b N	0.4					
5 „	.812	.901	84.4	79.0	5.4	77.0	.79	84.0	82.1	„	0.2					
6 „	.824	.908	82.4	78.6	3.8	77.2	.85	82.6	81.8	„	0.2					
7 „	.833	.955	81.4	77.4	4.0	75.9	.84	81.8	81.7	NNW	0.1					
8 „	.858	.980	81.0	77.3	3.7	75.9	.85	81.4	81.5	„	0.1		—	4		0.20
9 „	.871	.998	80.4	77.0	3.4	75.7	.86	81.0	81.4	N b W	0.0		—	7	5	0.23
10 „	.871	29.016	79.5	76.3	3.2	75.0	.87	80.1	81.2	„	0.0		—	7	5	0·16
11 „	.857	.008	78.6	75.9	2.7	74.8	.89	79.2	81.0	„	0.0		—	11	8	0.10
Oct. 21st-Midnight	.845	.031	78.0	74.8	3.2	73.5	.87	79.0	80.8	N b W	0.0		+	14	10	0·08
1 a. m.	.830	.017	77.3	74.6	2.7	73.5	.89	78.2	80.5	„	0.0		+	3		0·25
2 „	.831	28.999	77.0	75.0	2.0	74.2	.91	77.6	80.4	„	0·0		+	18	14	0·07
3 „	.825	.992	76.9	75.0	1.9	74.2	.92	77.6	80.3	N b E	0.0		+	1		Above 10m.
4 „	.820	.988	77.0	75.0	2.0	74.2	.91	77.7	80.3	NE b N	0.1					
5 „	.833	29.099	76.4	72.2	4.2	74.3	.82	77.5	80.2	„	0.1					
6 „	.858	.128	76.7	72.2	4.5	74.1	.81	77.4	80.0	NE	0.1					
7 „	.874	.044	78.6	75.4	3.2	74·1	.87	79.0	80.0	NE b E	0.1					
8 „	.894	.131	79.8	74.0	5.8	71.5	.77	80.2	80.2	NE b N	0.1		+	1		Above 10m.
9 „	.914	.137	82.0	75.0	7.0	72.0	.73	82.0	80.5	„	0·1					
10 „	.914	.170	83.6	74.6	9.0	70.7	.67	83.3	80.8	„	0.1					
11 „	.899	.159	85.4	75.0	10.4	70.6	.62	84.5	81.1	„	0.1					
Noon.	.875	.183	87.7	77.0	10.7	72.7	.62	86.3	81.5	NNE	0.1	Immeasurable.				
1 p. m.	.839	.048	87.8	77.0	10.8	72.7	.62	86.9	81.7	NW b N	0.2			2		Above 10m.
2 „	.812	28.929	88.0	79.3	8.7	76.0	.69	86.9	82.0	NW	0.2			1		Above 10m.
3 „	.816	29.039	87.8	77.8	10.0	72.0	.65	87.0	82.2	NW b W	0.3			1		Above 10m.
4 „	.816	28.941	87.6	79.0	8.6	75.8	.69	87.0	82.3	NW b N	0.3			2		Above 10m.
5 „	.843	.939	85.0	79.0	6.0	76.8	.77	84.8	82.2	„	0.3			5		1·00
6 „	.859	.931	83.6	79.2	4.4	77.6	.83	83.2	82.1	„	0.0		—	Out of Sc.	80	0·02
7 „	.881	29.010	82.0	77.4	4.6	75.6	.82	82.4	81.9	SW b S	0.0		—	Our of Sc.	Out of Sc.	Instantly.
8 „	.901	.012	80.4	77.4	3.0	76.3	.84	81.0	81.6	S b W	0.1		+	1		
9 „	.902	28.991	80.2	77.9	2.3	77.0	.90	80.9	81.5	„	0.0		+	1		
10 „	.905	.990	80.2	78.0	2.2	77.2	.91	80.8	81.3	„	0.0					
11 „	.889	.987	79.6	77.5	2.1	76.7	.91	80.2	81.3	S	0.0		+	11		
Oct. 22nd-Midnight	.873	.966	78.8	77.4	1.4	76.9	.94	79.6	81.1	S	0.1		+	5		0·23
1 a. m.	.853	.960	78.5	77.0	1.5	76.4	.94	79.0	81.0	S b W	0.1		+	2		2·00
2 „	.850	.971	78.0	76.5	1.5	75.9	.94	78.8	80.9	„	0.1		+	1		Above 10m.
3 „	.848	.972	77.6	76.3	1.3	75.8	.94	78.3	80.7	„	0.0					
4 „	.849	.974	77.4	76.2	1.2	75.8	.95	78.3	80.5	„	0.0					
5 „	.851	.982	77.2	76.0	1.2	75.5	.95	78.2	80.5	„	0.0	None.				
6 „	.877	.976	77.1	76.8	0.3	76.7	.99	77.8	80.4	„	0.0		+	9		
7 „	.913	29.086	77.8	75.1	2.7	74.0	.89	78.7	80.4	SSW	0.0		+	16	16	
8 „	.936	.113	80.0	75.6	4.4	73.9	.82	80.4	80.5	NNW	0.0		+	Out of Sc.	30	
9 „	.956	.168	82.4	75.4	7.0	72.5	.73	82.2	80.8	„	0.0		+	7	5	
10 „	.957	.208	84.5	75.0	9.5	70.9	.65	83.7	81.1	„	0.0		+	2		
11 „	.937	.297	85.3	72.3	13.0	66.1	.54	84.1	81.4	„	0.0		+	2		

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩ cumulo-strati; and ≀≀ nimbi.	
8	H	Overcast with ≀≀, moving E; lightning in SW.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°9 and 82°7.
8	H	Nearly overcast with ≀≀.	
7	H	" " "	
3	H	≀≀ scattered here and there.	
2	H	≀≀ scattered around hor.	
2	L	Clouded around hor.; dew falling.	
2	L	≀≀ about 2th.; ≀ scattered around hor. and in W.	
2	L	∩ in W hor.; ≀ scattered around hor.	
2	L	" " " "	
2	C	" " " "	
2	C	" " " "	
2	C	≀≀ in E, SE, and S hor.; ≀ scattered about.	
2	C	≀≀ in E, SE, and SW hor.; ≀ scattered about hor.	
2	H	∩ around hor.; ≀≀ and ≀ scattered about hor.	
3	H	Clouded as before.	
2	H	" "	
3	H	" "	
7	L	≀ scattered throughout.	
5	L	" "	
2	L	≀ scattered about hor.	
2	L	" "	
2	C	" "	
2	C	" "	
1	C	" "	
1	C	≀ scattered around hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°9 and 82°7. Maximum Tension of Electricity by Henly's Apparatus 16. Maximum Length of Spark by Ronald's Measure 0.15.
1	H	A few clouds around hor.; lightning in SE every four minutes.	
1	H	Clouds around hor. as before; lightning in E; dew falling.	
1	H	A few clouds around hor.; dew falling.	
1	H	" " " "	
1	L	" " " "	
1	L	≀ scattered around hor.	
2	L	≀ in hor.; mist in W and NW hor.	
2	L	" " " "	
2	C	∩ in E hor.; ⌣ above E hor.; ≀ scattered here and there; *mist* along W hor.	
3	C	∩ and ⌣ along E hor.; ≀ scattered about; mist along W hor.	
3	C	Clouded as before.	
3	C	Clouded as before, except a few patches of ≀≀ in SE.	
6	H	∩ in hor.; ≀ and ≀≀ scattered throughout.	
4	H	Clouded as before.	
3	H	" "	
5	H	" " [out; thunder in SE; lightning in SE at 5h. 45m.	
7	L	∩ from E to SW hor.; ≀≀ in E, SE, and S above hor.; ≀ scattered through-	
7	L	∩ from E to SW hor.; ≀≀ in SE; ≀ & ≀≀ scattered about; continuous lightning	
8	L	≀≀ scattered throughout; lightning in E and SW; rain for 20m. [in S & SW.	
8	L	Overcast with ≀≀; lightning in SW.	
8	C	Overcast.	
8	C	"	
4	C	≀ scattered about.	
5	C	≀ scattered about.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°9 and 82°7.
2	H	≀ scattered about hor.	
6	H	≀≀ scattered throughout, moving E.	
6	H	" " "	
7	H	" " "	
7	L	≀≀ around hor.; ≀ and ≀≀ scattered throughout.	
7	L	Densely clouded with ≀≀.	
3	L	≀≀ scattered about hor.; ≀ in S and SW.	
3	L	" " " "	
3	C	≀≀ in NE and E above hor.; ≀ scattered about.	
3	C	Clouded as before.	
2	C	≀≀ in E; ⌣ in N; ≀ scattered about.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Oct. 22TH–Noon.	29.912	29.191	87°1	75°0	12°1	69°7	0.58	85°9	81°7	NNW	0.1		+	4		
1 p. m.	.876	.051	87.6	77.8	9.8	73.9	.65	86.2	81.9	„	0.2		+	2		
2 „	.855	.050	88.0	77.4	10.6	73.2	.63	86.8	82.1	„	0.2		+	2		
3 „	.842	.051	87.8	77.0	10.8	72.7	.62	86.6	82.3	„	0.3		+	2		
4 „	.839	.065	86.6	76.2	10.4	71.9	.63	86.1	82.4	„	0.3		+	2		
5 „	.841	.042	84.9	76.3	8.3	73.0	.69	84.0	82.2	„	0.2	None.	+	1		None.
6 „	.850	.082	82.8	75.0	7.8	71.7	.70	83.0	82.0	„	0.4		+	1		
7 „	.867	.047	82.4	76.2	6.2	73.7	.76	82.6	81.9	W b N	0.3		+	4		
8 „	.879	.080	81.4	75.4	6.0	73.0	.76	81.6	81.7	„	0.2		+	9	8	
9 „	.888	.067	80.3	75.8	5.0	73.8	.80	80.8	81.5	N	0.1		+	Out of Sc.	40	
10 „	.895	.099	79.2	74.7	4.5	72.0	.82	80.0	81.3	NNE	0.1		+	Out of Sc.	67	
11 „	.887	.038	79.0	76.0	3.0	74.8	.88	79.4	81.1	„	0.0		+	7	6	
Oct.23RD-Midnight	.877	.120	77.4	73.1	4.3	71.2	.82	78.2	80.8	NNE	0.0		+	2		
1 a. m.	.859	.137	77.2	72.1	5.1	69.8	.79	78.0	80.5	„	0.0		+	1		
2 „	.857	.144	77.6	72.0	5.6	69.4	.77	78.2	80.4	NE b E	0.1		+	1		
3 „	.855	.109	78.0	73.0	5.0	70.8	.79	78.4	80.3	ENE	0.2		+	1		Above 10m.
4 „	.859	.134	77.2	72.2	5.0	69.9	.79	77.7	80.2	E b N	0.2					
5 „	.879	.196	76.4	70.8	5.6	68.1	.77	77.0	80.0	„	0.1					
6 „	.900	.232	76.2	70.3	5.9	67.4	.75	76.8	79.9	„	0.1					
7 „	.917	.187	77.4	72.4	5.0	70.1	.79	78.0	79.7	„	0.1					
8 „	.930	.183	80.0	73.6	6.4	70.8	.75	80.0	80.1	„	0.2					
9 „	.944	.251	80.5	72.3	8.2	68.5	.69	80.2	80.3	„	0.1		+	2		Above 10m.
10 „	.935	.230	81.7	73.0	8.7	69.0	.67	81.2	80.5	E	0.1		+	2		Above 10m.
11 „	.913	.223	83.0	73.0	10.0	68.4	.63	82.4	80.5	„	0.0	None.	+	2		Above 10m.
Noon.	.878	.237	84.2	72.0	12.2	66.1	.56	83.4	80.8	„	0.0		+	2		Above 10m.
1 p. m.	.846	.131	86.2	74.6	11.6	69.5	.59	84.6	81.1	ENE	0.0		+	5	2	0.25
2 „	.820	.128	87.3	74.3	13.0	68.5	.55	86.2	81.4	NNW	0.2		+	1		Above 10m.
3 „	.807	.033	88.0	76.6	11.4	71.9	.60	86.7	81.7	NW b N	0.2		+	10	10	0.22
4 „	.812	.086	86.6	75.0	11.6	69.9	.59	85.8	81.7	„	0.3		+	2		Above 10m.
5 „	.821	.052	84.1	75.4	8.7	71.7	.68	83.4	81.5	NW	0.2		+	2		Above 10m.
6 „	.828	28.950	82.8	77.8	5.0	75.9	.80	82.7	81.5	„	0.2		+	2		Above 10m.
7 „	.845	.996	81.8	76.8	5.0	74.8	.80	82.2	81.5	„	0.1		+	2		Above 10m.
8 „	.863	29.996	80.4	74.4	6.0	71.8	.76	80.8	81.3	N b W	0.1		+	Out of Sc.	45	0.10
9 „	.877	.144	78.8	72.9	5.9	70.3	.76	79.7	80.9	N	0.0		+	6		Above 10m.
10 „	.871	.052	78.2	75.0	3.2	73.7	.87	79.1	80.7	„	0.0		+	11	10	0.35
11 „	.859	.080	78.4	74.0	4.4	72.1	.82	79.0	80.6	NE b N	0.0		+	6	4	1.27
Oct.24TH-Midnight	.848	.135	77.6	72.0	5.6	69.4	.77	78.6	80.5	NE b N	0.0		+	2		3.00
1 a. m.	.833	.138	77.0	71.3	5.7	68.6	.76	78.0	80.2	„	0.0		+	1		Above 10m.
2 „	.830	.080	77.0	72.8	4.2	71.0	.82	77.4	80.0	„	0.2		+	1		Above 10m.
3 „	.832	.131	76.1	71.2	4.9	68.9	.79	76.7	79.8	„	0.1		+			
4 „	.835	.167	75.3	70.0	5.3	67.4	.77	76.1	79.5	NE	0.1		+	1		Above 10m.
5 „	.851	.209	75.2	69.2	6.0	66.2	.75	75.5	79.3	NE b E	0.5		+	1		Above 10m.
6 „	.870	.221	73.3	68.8	4.5	66.5	.80	75.0	79.0	ENE	0.2		+	1		Above 10m.
7 „	.882	.248	75.3	69.0	6.3	65.8	.74	76.9	79.0	„	0.3		+	2		Above 10m.
8 „	.894	.255	78.6	70.2	8.4	66.0	.67	78.8	79.4	E	0.2		+	2		Above 10m.
9 „	.915	.243	81.4	72.0	9.4	67.6	.64	81.1	79.8	„	0.1		+	2		Above 10m.
10 „	.905	.238	81.8	72.0	9.8	67.4	.63	81.3	80.0	E b N	0.1		+	2		3 27
11 „	.882	.192	83.0	73.0	10.0	68.4	.63	82.2	80.3	„	0.1		+	3		Above 10m.
Noon.	.857	.135	85.6	74.6	11.0	69.8	.61	84.1	80.6	NNE	0.0		+	4		3.37
1 p. m.	.825	.106	87.3	75.0	12.3	69.7	.67	85.5	81.0	N	0.0	None.	+	5		Above 10m.
2 „	.798	.018	87.8	76.7	11.1	72.2	.61	86.0	81.3	NNW	0.0		+	1		Above 10m.
3 „	.775	28.934	88.0	78.3	9.7	74.5	.66	86.3	81.5	NW b N	0.2		+	1		Above 10m.
4 „	.776	.985	87.8	77.0	10.8	72.6	.62	87.2	81.7	„	0.1		+	1		Above 10m.
5 „	.779	.933	85.3	77.7	7.6	74.7	.72	84.2	81.8	„	0.1		+	1		Above 10m.
6 „	.786	.938	82.6	77.0	5.6	74.8	.78	82.7	81.5	NNW	0.2		+	1		Above 10m.
7 „	.813	.961	81.5	76.8	4.7	74.9	.81	81.7	81.4	N b W	0.2		+	1		Above 10m.
8 „	.834	29.056	80.2	74.5	5.7	72.1	.77	80.9	81.2	„	0.2		+	1		Above 10m.
9 „	.837	.054	79.4	74.4	5.0	72.3	.80	80.1	81.0	N	0.1		+	14	10	0.05
10 „	.827	.117	77.0	72.0	5.0	69.7	.79	78.1	80.5	N b E	0.1		+	10	10	0.15
11 „	.829	.104	76.6	72.0	4.6	69.9	.81	77.7	80.2	NE b N	0.1		+	6	4	0.25

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are : ≤ cirri ; ≤≤ cirro-cumuli ; ∩ cumuli ; ⌣ cirro-strati ; ∩⌣ cumulo-strati ; and ≤∩ nimbi.	
2	C	≤ scattered about hor.	
3	H	≤ and patches of ≤≤ scattered here and there.	
5	H	≤ and ≤≤ scattered about.	
5	H	" " "	
5	H	" " "	
7	L	≤ scattered throughout.	
7	L	" "	
3	L	≤ scattered about.	
2	L	≤ scattered around hor.	
2	C	" "	
2	C	" "	
2	C	" "	
0	C	Clear, except in hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°9 and 82°7.
0	H	" "	
0	H	" "	
0	H	" "	
0	H	" "	
3	L	≤ scattered about.	
8	L	Densely clouded with ≤.	
7	L	" " "	
7	L	≤ scattered throughout.	
6	C	" "	
6	C	" "	
6	C	" "	
5	C	" "	
6	H	A bank of clouds from N to SE hor. ; otherwise clouded with ≤.	
8	H	Clouded as before.	
7	H	" "	
7	H	" "	
8	L	" "	
6	L	" "	
3	L	≤ scattered about hor.	
3	L	" "	
1	C	≤ around hor., otherwise cloudles.	
1	C	" " "	
1	C	" " "	
0	C	Clear, except in hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 83°0.
0	H	" "	
0	H	" "	
0	H	" "	
0	H	" "	
5	L	≤ scattered about.	
6	L	" "	
6	L	" "	
7	L	Nearly overcast with ≤.	
4	C	≤ scattered about.	
4	C	" "	
5	C	" "	
4	C	" "	
4	C	" "	
3	C	" "	
3	H	" "	
6	H	" "	
5	H	" "	
2	H	≤ scattered here and there.	
0	H	Clear, except in hor.	
0	H	Clear.	
0	H	"	
0	H	"	
0	H	"	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture	In the Air.	Wet-Bulb Thermometer.	Depression of Wet-Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in which the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Oct. 26th-Midnight	29.833	29.074	76°2	72°8	3°4	71°3	0.85	77°4	80°0	N b E	0.0					
1 a. m.	.817	.104	75.6	71.0	4.6	69.4	.81	77.0	79.7	NE b E	0.0					
2 „	.812	.144	75.3	70.0	5.3	67.4	.77	76.2	79.5	ENE	0.0					
3 „	.813	.156	74.8	69.5	5.3	66.9	.77	75.6	79.3	„	0.1					
4 „	.821	.182	74.8	69.0	5.8	66.0	.75	75.4	79.1	E b N	0·2		+	1		Above 10m.
5 „	.831	.194	74.4	68.8	5.6	65.9	.76	75.5	78.8	„	0·1					
6 „	.859	.200	74.2	69.4	4.8	67.0	.79	75.0	78.7	E	0·2		+	1		Above 10m.
7 „	.877	.196	75.7	70.5	5.2	68.0	.78	76.5	78.7	„	0·3		+	4		0.07
8 „	.891	.227	77.2	70.5	6.7	67.2	.73	77.6	78.8	„	0.2					
9 „	.912	.217	79.3	72.0	7.3	68.6	.71	79.2	79.1	E b N	0.2		+	4		0.28
10 „	.901	.254	82.0	71.5	10.5	66.4	.61	82.0	79.6	„	0·1		+	5		1·30
11 „	.880	.221	84.2	72.5	11.7	67.0	.58	83.5	80.0	„	0·1		+	4		5·45
Noon.	.849	.291	86.8	70.5	16.3	62.0	.45	86.2	80.5	NE bE	0·1	None.	+	2	None.	Above 10m.
1 p. m.	.815	.257	88.4	71.0	17.4	62.0	.43	87.9	81.0	NNE	0.1		+	3		Above 10m.
2 „	.794	.247	89.4	71.0	18.4	61.3	.41	88.5	81.4	„	0·2		+	2		Above 10m.
3 „	.770	.037	89.5	76.0	13.5	70.2	.55	88.0	81.7	NW b N	0·2		+	3		Above 10m.
4 „	.773	.096	87.6	74.0	13.6	67.8	.54	86.2	81.5	„	0·2		+	2		Above 10m.
5 „	.784	28.966	85.4	77.0	8.4	73.7	.69	84.2	81.5	„	0.3					
6 „	.790	29.020	82.6	75.0	7.6	71.8	.71	82.8	81.3	„	0.4					
7 „	.812	28.992	81.6	76.0	5.6	73.8	.78	82.0	81.1	„	0.2					
8 „	.841	.975	81.0	77.0	4.0	75.4	.84	81.2	81.1	N b W	0.1					
9 „	.863	29.172	78.6	71.6	7.0	68.4	.72	79.6	80.6	N b E	0.1					
10 „	.863	.197	78.6	71.0	7.6	67.3	.70	79.2	80.5	NNE	0.0					
11 „	.858	.285	76.9	67.7	9.2	62.8	.63	78.2	80.1	N b E	0.1					
Oct. 27th-Midnight	.845	.333	76.3	65.6	10.7	59.4	.58	77.5	79.8	N b E	0.1					
1 a. m.	.828	.296	75.6	66.0	9.6	60.5	.61	76.2	79.5	„	0.1		+	1		Above 10m.
2 „	.828	.169	77.0	70.3	6.7	67.0	.73	77.5	79.5	NE b N	0.0		+	1		Above 10m.
3 „	.831	.218	76.6	68.8	7.8	64.8	.68	77.2	79.4	„	0.1		+	1		Above 10m.
4 „	.835	.233	76.4	68.4	8.0	64.3	.67	77.2	79.2	„	0.1		+	1		Above 10m.
5 „	.848	.215	76.0	69.2	6.8	65.8	.72	76.8	79.1	„	0.1					
6 „	.875	.192	75.2	70.4	4.8	68.1	.79	76.0	79.0	NE	0.1		+	1		Above 10m.
7 „	.893	.254	76.0	69.4	6.6	66.0	.73	76.8	78.9	„	0.1					
8 „	.905	.251	77.2	70.2	7.0	66.8	.72	77.8	79.0	„	0.1					
9 „	.926	.252	79.6	71.5	8.1	67.7	.68	80.1	79.2	NE b E	0.1		+	1		Above 10m.
10 „	.915	.275	81.0	71.0	10.0	66.1	.62	80.8	79.5	„	0.1		+	1		Above 10m.
11 „	.890	.298	83.4	70.4	13.0	63.7	.53	82.0	79.8	„	0.0					
Noon.	.858	.201	86.0	73.0	13.0	66.9	.54	85.0	80.3	„	0.0	None.	+	9	6	1·07
1 p. m.	.829	.053	85.6	76.0	9.6	72.0	.65	84.2	80.5	NW b N	0.1		+	1		Above 10m.
2 „	.805	.090	85.6	74.4	11.2	69.5	.60	84.7	80.7	NW	0.1		+	1		Above 10m.
3 „	.790	.066	86.8	75.0	11.8	69.9	.58	85.7	81.0	NW b N	0.1		+	1		Above 10m.
4 „	.792	.090	86.8	74.4	12.4	68.9	.57	85.4	81.2	NW	0.1		+	1		Above 10m.
5 „	.799	.047	85.3	75.3	10.0	71.1	.64	84.5	81.3	„	0.2					
6 „	.808	28.973	82.8	76.7	6.1	74.3	.76	82.8	81.1	N b W	0.3					
7 „	.830	.979	81.6	76.8	4.8	74.9	.81	81.8	81.0	„	0.5					
8 „	.857	29.030	81.0	76.0	5.0	74.0	.80	81.5	81.0	„	0.6					
9 „	.873	.003	80.3	76.9	3.4	75.6	.86	80.8	80.9	„	0.3					
10 „	.873	28.991	79.5	77.0	2.5	76.0	.89	80.0	80.7	N	0.2					
11 „	.863	.997	78.5	76.3	2.2	75.4	.91	79.2	80.5	N b E	0.0					
Oct. 28th-Midnight	.846	29.046	76.8	74.1	2.7	73.0	.89	78.0	80.3	N b E	0.0					
1 a. m.	.832	.035	75.7	73.7	2.0	72.9	.91	76.7	80.0	„	0.0					
2 „	.820	.043	75.2	73.0	2.2	72.1	.90	76.5	79.7	„	0.1					
3 „	.810	.102	74.2	70.8	3.4	69.2	.85	75.2	79.4	„	0.0					
4 „	.813	.096	74.0	71.0	3.0	69.6	.87	75.2	79.1	„	0.0					
5 „	.824	.122	73.8	70.5	3.3	68.9	.86	75.0	78.8	„	0.0					
6 „	.852	.123	74.2	71.4	2.8	70.1	.88	75.5	78.8	ENE	0.3	None.			None.	
7 „	.874	.097	75.2	73.0	2.2	72.1	.90	76.0	78.8	E b N	0.2					
8 „	.881	.199	77.2	71.0	6.2	68.0	.75	77.5	79.1	„	0.2					
9 „	.895	.166	79.2	72.9	6.3	70.1	.75	80.0	79.3	„	0.1					
10 „	.884	.172	80.4	72.8	7.6	69.3	.70	80.8	79.5	„	0.0					
11 „	.862	.129	81.9	73.8	8.1	70.2	.69	82.0	79.7	„	0.0		+	2		5.30

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ⌒ cumuli; ⌒≀ cirro-strati; ⌒⌒ cumulo-strati; and ≀≀ nimbi.	
0	C	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 82°9. The greatest Temperature of external and Free Air during the month occurred on this day at 3 P. M. The range of Thermometer was 15°3, the largest in the month.
0	H	"	
0	H	"	
0	H	"	
0	H	"	
1	L	≀ scattered around hor.	
2	L	" "	
2	L	" "	
2	L	" "	
2	C	" "	
2	C	" "	
2	C	≀ scattered around hor., and in W hem.	
2	C	≀ scattered about.	
2	H	≀ scattered here and there.	
2	H	" " "	
2	H	" " "	
6	H	≀ scattered throughout.	
7	L	" "	
6	L	" "	
5	L	" "	
5	L	≀ scattered about; a lunar-halo.	
3	C	" " "	
3	C	≀ scattered about.	
2	C	≀ scattered around hor.	
3	C	≀ scattered about hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 82°9. The Temperature of calculated Dew-point at midnight was 59°4, least during the month; and its daily range was 16°7, largest in the month.
1	H	A few clouds around hor.	
1	H	" " "	
1	H	" " "	
1	H	" " "	
4	L	≀ scattered about hor.	
8	L	≀ scattered throughout	
7	L	" "	
6	L	" "	
6	C	" "	
5	C	" "	
4	C	" "	
4	C	" "	
6	H	" "	
6	H	" "	
6	H	" "	
6	H	" "	
8	L	" "	
6	L	" "	
6	L	≀ scattered throughout; a lunar-halo.	
6	L	" " "	
6	C	≀ scattered about.	
6	C	Clouded as before; dew falling.	
4	C	" " "	
4	C	≀ scattered about hor.; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 82°9.
1	H	≀ scattered around hor.; dew falling.	
1	H	" " "	
1	H	" " "	
1	H	" " "	
4	L	≀ scattered about.	
7	L	≀ scattered throughout.	
7	L	" "	
6	L	" "	
5	C	" "	
4	C	A few patches of ≀≀ in E and W; ≀ scattered about.	
4	C	≀ scattered about.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 feet in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Oct. 28th–Noon.	29.832	29.077	84°0	75°0	9°0	71°2	0.67	83°2	80°1	NNW	0.1		+	15	12	0.17
1 p. m.	.793	28.967	84.6	77.0	7.6	74.0	.72	84.0	80.3	NW b N	0.2		+	2		Above 10m.
2 „	.772	.935	85.1	77.4	7.7	74.4	.71	84.2	80.6	NNW	0.2					
3 „	.767	.951	85.5	77.0	8.5	73.6	.69	84.2	80.9	„	0.2					
4 „	.769	.944	85.8	77.3	8.5	73.9	.69	85.4	81.1	„	0.2					
5 „	.780	.931	84.0	77.4	6.6	74.3	.75	83.4	81.1	„	0.2					
6 „	.787	.970	81.2	75.8	5.4	73.6	.78	81.7	80.8	N b W	0.2	None.				
7 „	.813	29.010	80.4	75.2	5.2	73.1	.79	81.0	80.7	„	0.1					
8 „	.827	28.992	79.8	75.8	4.0	74.2	.84	80.3	80.6	N	0.1					
9 „	.837	.990	79.2	76.0	3.2	74.7	.87	79.8	80.4	„	0.0					
10 „	.828	29.007	78.0	75.0	3.0	73.8	.87	88.4	80.3	„	0.0					
11 „	.811	.061	77.0	72.8	4.2	71.0	.83	88.0	80.0	„	0.0					
Oct. 29th–Midnight	.799	28.961	77.2	75.2	2.0	74.4	.91	78.0	79.9	NE	0.1					
1 a. m.	.781	.963	76.6	74.5	2.1	73.7	.91	77.4	79.8	NE b E	0.1					
2 „	.780	.972	76.4	74.2	2.2	73.3	.91	77.3	79.6	„	0.0					
3 „	.772	.960	75.4	74.0	1.4	73.4	.94	76.2	79.4	NNW	0.0					
4 „	.775	29.001	74.8	72.8	2.0	71.9	.91	76.0	79.2	„	0.0					
5 „	.788	.012	74.0	72.6	1.4	72.0	.94	75.5	79.1	„	0.0					
6 „	.812	.015	74.4	73.3	1.1	72.9	.95	75.5	78.9	N b W	0.1					
7 „	.836	.031	76.0	74.0	2.0	73.2	.91	76.9	78.9	NE	0.1					
8 „	.856	.079	78.0	73.8	4.2	72.0	.83	78.5	79.2	„	0.0					
9 „	.872	.094	79.1	74.2	4.9	72.1	.80	79.2	79.4	„	0.1					
10 „	.865	.056	81.2	75.6	5.6	73.3	.78	81.0	79.7	„	0.1					
11 „	.838	.099	82.0	74.0	8.0	70.5	.69	82.0	80.0	NE b E	0.1	None.	+	1	None.	Above 10m.
Noon.	.808	.073	83.4	74.3	9.1	70.4	.66	82.9	80.2	N b W	0.1					
1 p. m.	.778	28.998	84.9	75.9	9.0	72.2	.67	84.3	80.5	NNW	0.1					
2 „	.760	.951	86.2	77.0	9.2	73.3	.67	85.2	80.9	„	0.2		+	1		Above 10m.
3 „	.749	.930	86.8	77.4	9.4	73.7	.66	85.7	81.2	„	0.4					
4 „	.752	.885	86.0	78.4	7.6	75.4	.72	85.6	81.4	„	0.5					
5 „	.764	.922	83.2	77.0	6.2	74.6	.76	83.0	81.4	„	0.2					
6 „	.774	.941	81.2	76.2	5.0	74.2	.80	81.6	81.0	„	0.3					
7 „	.805	29.000	80.2	75.2	5.0	73.2	.80	80.9	80.8	„	0.1					
8 „	.828	.009	79.6	75.4	4.2	73.7	.83	80.0	80.6	N	0.0					
9 „	.837	.036	78.4	74.6	3.8	73.0	.84	79.1	80.4	„	0.0					
10 „	.833	.035	77.7	74.3	3.4	72.9	.86	78.4	80.2	„	0.0					
11 „	.821	.055	76.2	73.0	3.2	71.6	.86	77.2	79.9	„	0.0		+	3		0.07
Oct. 30th–Midnight	.810	.038	76.3	73.2	3.1	71.8	.87	77.4	79.8	N	0.0					
1 a. m.	.800	.011	75.8	73.5	2.3	72.6	.90	76.9	79.5	„	0.0					
2 „	.800	.021	75.0	73.0	2.0	72.1	.91	76.2	79.3	„	0.0					
3 „	.795	.014	74.8	73.0	1.8	72.2	.92	75.4	79.2	„	0.0					
4 „	.796	.053	73.6	71.6	2.0	70.7	.91	74.9	79.0	„	0.0					
5 „	.811	.087	73.4	71.0	2.4	69.9	.89	74.8	78.6	„	0.0					
6 „	.841	.146	72.2	69.8	2.4	68.6	.89	73.4	78.4	„	0.0					
7 „	.867	.060	75.8	74.0	1.8	73.2	.92	76.7	78.5	NE	0.1					
8 „	.885	.098	77.6	74.0	3.6	72.5	.85	78.0	78.9	„	0.0					
9 „	.899	.137	79.5	73.9	5.6	71.4	.78	80.0	79.2	NE b E	0.1					
10 „	.889	.140	81.1	74.3	6.8	71.4	.73	81.2	79.5	ENE	0.1					
11 „	.868	.133	82.7	74.1	8.6	70.3	.68	82.3	79.9	„	0.0					
Noon.	.836	.081	84.0	75.0	9.0	71.2	.67	83.2	80.1	N b W	0.0	None.			None.	
1 p. m.	.802	.837	84.5	75.4	9.1	71.6	.67	84.0	80.5	NNW	0.2					
2 „	.778	28.968	85.1	76.7	8.4	73.4	.69	84.2	80.6	„	0.4					
3 „	.766	.923	86.0	77.8	8.2	74.6	.70	85.2	81.0	„	0.4					
4 „	.770	.923	85.6	77.8	7.8	74.7	.71	85.0	81.1	„	0.6					
5 „	.787	.961	83.0	76.6	6.4	74.0	.75	82.8	81.1	N b W	0.5					
6 „	.801	.980	80.8	75.8	5.0	73.8	.80	81.2	80.7	„	0.4					
7 „	.819	.999	80.2	75.6	4.6	73.8	.81	80.6	80.6	„	0.3					
8 „	.841	29.014	79.6	75.6	4.0	74.0	.84	80.4	80.5	„	0.4					
9 „	.857	.006	78.8	76.0	2.8	74.9	.88	79.2	80.4	N	0.0					
10 „	.853	.069	76.6	73.6	3.0	72.4	.87	77.5	80.0	„	0.0		+	5		0.07
11 „	.847	.081	76.2	73.0	3.2	71.6	.86	77.1	79.8	N b E	0.0		+	3		0.13

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀ cirro-cumuli; ≀ cumuli; ≀ cirro-strati; ≀ cumulo-strati; and ≀ nimbi.	
3	C	≀ scattered about hor.	
4	H	≀ scattered about.	
3	H	≀ scattered about hor.	
3	H	" "	
4	H	" "	
4	L	≀ scattered about.	
4	L	" "	
4	L	≀ scattered about hor.	
2	L	" "	
0	C	Clear; dew falling.	
0	C	" "	
0	C	" "	
0	C	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 82°9.
0	H	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	L	" "	
2	L	≀ scattered about hor. from N to SE.	
2	L	≀ scattered around hor.	
1	L	" "	
0	C	Clear; mist along W hor.	
0	C	" " "	
0	C	Clear; mist in W hor.	
0	C	Clear.	
0	H	A few ≀ in hor. from E to SW.	
0	H	" " " "	
0	H	" " " "	
0	H	" " " "	
3	L	≀ scattered about.	
3	L	≀ scattered here and there about hor.	
0	L	Clear.	
0	L	"	
0	C	"	
0	C	"	
0	C	Clear; dew falling.	
0	C	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°9 and 82°8. The reading of Air Thermometer at 6 A. M. was 72°2, smallest in the month, being about 1°6 lower than the Normal Mean.
0	H	" "	
0	H	" "	
0	H	" "	
0	H	" "	
1	L	≀ scattered around hor., otherwise clear.	
1	L	" " "	
1	L	" " "	
0	L	Cloudless.	
0	C	"	
0	C	A few ≀ in S hem., otherwise clear.	
1	C	Streaks of ≀ scattered here and there.	
1	C	" "	
1	H	≀ in hor. from NW to S.	
1	H	" " "	
1	H	" " "	
1	H	" " "	
1	L	" " "	
0	L	" " "	
0	L	A few ≀ in E and SE, otherwise clear.	
0	L	Clouded as before.	
0	C	Clear; dew falling.	
0	C	" "	
1	C	Light ≀ in SE hem.; dew falling.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-Point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Oct. 31st-Midnight	29.836	29.031	76°0	74°0	2°0	73°2	0.91	77°0	79°6	N b E	0.0					
1 a. m.	.822	.018	75.4	73.8	1.6	73.1	.93	76.2	79.4	„	0.0		+	2		Above 10m.
2 „	.821	.061	75.0	72.5	2.5	71.4	.89	76.1	79.2	„	0.0					
3 „	.822	.048	74.8	72.8	2.0	71.9	.91	76.1	76.0	„	0.0					
4 „	.833	.106	74.4	71.4	3.0	70.0	.87	75.5	78.9	„	0.1					
5 „	.844	.151	73.0	70.0	3.0	68.5	.87	74.6	78.5	N	0.1					
6 „	.865	.152	72.6	70.4	2.2	69.4	.90	73.8	78.3	„	0.0					
7 „	.885	.110	74.7	72.8	1.9	72.0	.92	75.5	78.4	N b E	0.0					
8 „	.916	.120	78.2	74.4	3.8	72.8	.84	78.9	78.9	NNE	0.0					
9 „	.926	.153	79.6	74.2	5.4	71.9	.78	80.0	79.2	NE	0.0					
10 „	.913	.071	81.0	76.4	4.6	74.6	.82	81.1	79.5	NE b N	0.1					
11 „	.892	.092	81.7	75.5	6.2	73.0	.76	81.5	79.7	N b W	0.0					
Noon.	.858	.087	82.5	75.0	7.5	71.8	.71	82.0	79.9	„	0.1	None.			None.	
1 p. m.	.827	.039	83.8	75.8	8.0	72.5	.70	83.0	80.2	NW b N	0.2					
2 „	.804	28.957	84.6	77.5	7.1	74.7	.73	83.5	80.5	„	0.2					
3 „	.792	.967	84.7	77.0	7.7	73.9	.71	83.7	80.6	„	0.2					
4 „	.792	.959	84.0	77.0	7.0	74.2	.73	83.6	80.8	„	0.2					
5 „	.803	.994	82.0	76.4	5.6	74.3	.78	81.9	80.7	„	0.1					
6 „	.811	.973	80.0	76.0	4.0	74.4	.84	80.4	80.5	„	0.2					
7 „	.821	29.013	79.2	75.0	4.2	73.3	.83	79.8	80.3	NNW	0.1					
8 „	.836	28.987	79.0	76.0	3.0	74.8	.88	79.4	80.2	N b W	0.1					
9 „	.836	.961	78.4	76.5	1.9	75.8	.92	79.0	80.1	„	0.1					
10 „	.840	.973	77.4	76.0	1.4	75.5	.94	78.2	80.0	„	0.0					
11 „	.835	.958	76.6	74.6	2.0	73.6	.91	77.5	79.8	„	0.1					
Nov. 2nd-Midnight	.834	29.022	75.4	74.0	1.4	73.4	.94	76.2	79.4	NNW	0.0					
1 a. m.	.812	.026	74.4	73.0	1.4	72.4	.94	75.4	79.0	„	0.0					
2 „	.789	28.994	75.2	73.5	1.7	72.8	.93	76.0	79.0	„	0.0					
3 „	.787	.996	74.6	73.2	1.4	72.7	.94	75.4	78.9	„	0.0					
4 „	.791	29.019	73.6	72.4	1.2	71.8	.95	74.7	78.6	„	0.0					
5 „	.797	.035	73.2	72.0	1.2	71.4	.95	74.2	78.3	„	0.0					
6 „	.823	.068	73.2	71.8	1.4	71.2	.94	74.5	78.2	N	0.0					
7 „	.848	.036	75.4	74.0	1.4	73.4	.94	76.2	78.3	NNE	0.1					
8 „	.874	.082	77.2	74.0	3.2	72.7	.87	77.7	78.7	NE b E	0.1					
9 „	.890	.080	79.0	75.0	4.0	73.4	.84	79.0	78.9	ENE	0.2					
10 „	.888	.090	80.8	75.2	5.6	72.9	.78	80.8	79.2	E b N	0.2					
11 „	.870	.091	82.6	75.2	7.4	72.1	.72	82.0	79.5	„	0.1					
Noon.	.840	.177	83.5	72.4	11.1	67.2	.59	83.0	79.7	„	0.0	None.			None.	
1 p. m.	.812	28.988	85.6	77.2	8.4	73.9	.69	84.2	80.1	NW b N	0.1					
2 „	.788	.972	85.5	77.0	8.5	73.6	.69	84.1	80.5	NW	0.2					
3 „	.784	.961	85.0	77.1	7.9	73.8	.70	83.6	80.5	„	0.3		+	2		2.45
4 „	.786	.930	84.8	77.8	7.0	75.1	.74	83.6	80.7	NNW	0.4					
5 „	.792	.914	82.8	77.8	5.0	75.9	.80	82.0	80.7	„	0.3					
6 „	.808	.935	80.4	77.0	3.4	75.7	.86	80.2	80.4	„	0.2					
7 „	.831	.935	79.8	77.4	2.4	76.5	.90	79.9	80.2	„	0.2					
8 „	.845	.972	79.3	76.7	2.6	75.7	.89	79.5	80.1	N b W	0.3					
9 „	.859	.953	79.2	77.5	1.7	76.8	.93	79.5	79.8	„	0.0					
10 „	.863	.999	77.6	76.0	1.6	75.4	.93	78.2	79.8	N	0.0					
11 „	.853	29.019	76.8	75.0	1.8	74.3	.92	77.2	79.7	„	0.0					
Nov. 3rd-Midnight	.834	.045	75.4	73.4	2.0	72.6	.91	76.5	79.4	N b E	0.1					
1 a. m.	.835	28.992	76.0	75.0	1.0	74.6	.96	77.0	79.3	„	0.8					
2 „	.833	29.105	75.0	71.6	3.4	70.0	.85	76.0	79.0	E	0.1					
3 „	.833	.101	74.6	71.6	3.0	70.2	.87	75.4	79.0	„	0.1					
4 „	.833	.108	74.6	71.4	3.2	67.9	.86	75.2	78.7	„	0.1					
5 „	.843	.083	73.4	72.0	1.4	71.4	.94	75.1	78.5	NNE	0.0					
6 „	.867	.174	73.0	70.0	3.0	68.5	.87	74.0	78.2	„	0.0	None.	None.	None.	None.	None.
7 „	.893	.140	74.0	72.0	2.0	71.1	.91	75.2	78.0	„	0.0					
8 „	.921	.154	77.8	73.5	4.3	71.6	.82	78.4	78.6	NE b E	0.2					
9 „	.933	.172	80.0	74.0	6.0	71.4	.76	79.6	79.0	ENE	0.1					
10 „	.926	.207	79.8	72.8	7.0	69.7	.72	79.4	79.0	„	0.1					
11 „	.901	.151	81.0	74.0	7.0	71.0	.73	80.8	79.2	„	0.1					

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩⌣ cumulo-strati; and ⌣ nimbi.	
2	C	≀ scattered in SE hem.; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°9 and 82°8.
3	H	Clouded as before; a faint lunar-halo.	
3	H	Light ≀ scattered about; dew falling.	
4	H	" " "	
2	H	≀ scattered around hor.; dew falling.	
2	L	" " "	
7	L	≀ scattered throughout.	
7	L	" "	
7	L	" "	
7	C	" "	
8	C	Overcast with ≀.	
7	C	≀ scattered throughout.	
7	C	" "	
8	H	" "	
7	H	" "	
7	H	" "	
7	C	" "	
4	C	≀ scattered about.	
3	C	≀ scattered about hor.	
3	C	≀ scattered about.	
4	C	≀ scattered about; dew falling; a lunar-halo.	
4	C	" " " "	
5	C	" " " "	
7	C	" " " "	
4	L	≀ scattered about; a lunar-halo; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°7 and 82°7.
4	C	≀ scattered about; dew falling copiously.	
2	C	" " " "	
2	C	≀ around hor., and in NE and W; dew falling.	
4	C	≀ scattered around hor., and in N and W; dew falling.	
1	H	" " " " " "	
0	H	≀ scatterred around hor., and in NW; fog in NE and N.	
1	H	≀ scattered around hor., and in N; fog in NE and E.	
1	H	≀ scattered around hor.	
1	L	≀ scattered along E hor.	
1	L	" " "	
1	L	" " "	
1	L	" " "	
2	C	" " "	
2	C	≀ scattered about hor. from NE to S; a few patches of ≀≀ in N.	
2	C	≀ scattered about hor. from NE to S.	
3	C	Light ≀ scattered about.	
3	H	" " "	
4	H	" " "	
1	H	≀ scattered here and there.	
1	H	≀ scattered around hor.	
2	L	≀ scattered along E hor.; dew falling.	
2	L	" " " "	
2	L	" " " "	
2	L	≀ scattered about E hor.; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°6 and 82°5.
3	L	" " "	
7	H	≀ and ≀≀ scattered throughout; a partial lunar-halo.	
7	H	Clouded as before.	
7	H	Clouded with ≀ and ≀≀; a partial lunar-halo.	
7	C	Patches of ≀≀ about zth.; ≀ scattered throughout.	
6	C	≀≀ in E hem.; ≀ scattered throughout.	
7	C	≀ scattered throughout, moving E.	
5	C	≀ scattered about.	
6	L	" "	
6	L	" "	
6	L	" "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Readings of			Interval of Time in recovering the same degree of tension after discharge.
													Sign of Electricity + or −	Strokes of Volta 1.	Strokes of Volta 2.	
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Nov. 3rd–Noon.	29.872	29.115	85°2	75°4	9°8	71°3	0.64	83°6	79°8	ENE	0.1		+	3		Above 10m.
1 p. m.	.843	28.970	84.0	78.0	6.0	75.7	.77	82.9	80.0	NNW	0.1					
2 „	.828	29.080	85.0	75.1	9.9	70.9	.64	84.1	80.2	„	0.3					
3 „	.810	.067	85.1	75.0	10.1	70.7	.63	84.0	80.5	„	0.2					
4 „	.807	.017	84.4	76.0	8.4	72.6	.69	83.2	80.5	„	0.1		+	1		Above 10m.
5 „	.821	28.996	82.6	76.4	6.2	73.9	.76	82.8	80.5	N b W	0.1	None.			None.	
6 „	.829	29.013	80.6	75.6	5.0	73.6	.80	80.2	80.2	„	0.2					
7 „	.857	.080	79.6	74.3	5.3	72.1	.79	79.7	80.0	„	0.1					
8 „	.879	.028	79.8	76.3	3.5	74.9	.86	79.5	80.0	„	0.2					
9 „	.877	.051	79.3	75.5	3.8	74.0	.84	79.5	80.0	„	0.1					
10 „	.890	.080	77.6	74.6	3.0	73.4	.87	77.9	79.8	N	0.0					
11 „	.886	.135	76.2	72.6	3.6	71.0	.85	77.1	79.5	ENE	0.2					
Nov. 4th–Midnight	.875	.165	74.6	71.0	3.6	69.3	.84	75.4	79.2	NNE	0.1					
1 a. m.	.864	.177	73.5	70.0	3.5	68.2	.85	74.2	78.7	„	0.0					
2 „	.846	.171	72.5	69.3	3.2	67.7	.86	73.4	78.3	„	0.0					
3 „	.845	.179	72.4	69.0	3.4	67.3	.85	73.4	78.1	„	0.0					
4 „	.854	.217	72.0	68.0	4.0	65.9	.82	73.1	77.9	„	0.0					
5 „	.865	.230	72.2	68.0	4.2	65.8	.81	73.3	77.6	„	0.1					
6 „	.893	.285	72.2	67.2	5.0	64.5	.78	73.0	77.5	„	0.1					
7 „	.917	.313	73.5	67.5	6.0	64.3	.74	74.2	77.5	NE b N	0.1					
8 „	.941	.250	77.6	71.3	6.3	68.4	.74	78.2	78.0	„	0.1					
9 „	.952	.237	80.2	72.8	7.4	69.5	.71	79.7	78.5	NE	0.2					
10 „	.939	.210	81.6	73.6	8.0	70.1	.69	81.0	78.8	N	0.2					
11 „	.919	.124	83.9	76.0	7.9	72.8	.70	83.0	79.3	„	0.2	None.			None.	
Noon.	.884	.123	84.2	75.2	9.0	71.4	.67	83.2	79.7	„	0.2					
1 p. m.	.853	.101	84.6	75.1	9.5	71.0	.65	83.6	79.9	NNW	0.5					
2 „	.842	.076	84.8	75.5	9.3	71.6	.66	83.7	80.1	„	0.6					
3 „	.832	.066	84.4	75.4	9.0	71.6	.67	83.2	80.3	„	0.8					
4 „	.824	.061	83.3	75.0	8.3	71.5	.69	82.3	80.3	„	0.7					
5 „	.832	.091	81.2	73.8	7.4	70.6	.71	80.5	80.0	„	0.8					
6 „	.839	.128	79.5	72.5	7.0	69.3	.72	79.7	79.7	„	1.5					
7 „	.867	.104	79.2	73.8	5.4	71.5	.78	79.2	79.5	„	1.0		+	2		Above 10m.
8 „	.884	.082	79.1	74.8	4.3	73.0	.82	79.2	79.5	„	0.2					
9 „	.893	.170	78.0	72.4	5.6	69.8	.77	78.7	79.5	N b W	0.1					
10 „	.898	.215	76.4	70.8	5.6	68.1	.77	77.0	79.3	„	0.1					
11 „	.895	.197	76.4	71.2	5.2	68.7	.78	77.0	79.1	„	0.0					
Nov. 5th–Midnight	.879	.054	77.6	75.0	2.6	73.9	.89	78.0	79.1	N b W	0.2					
1 a. m.	.875	.066	77.4	74.5	2.9	73.3	.88	78.0	79.0	„	0.1					
2 „	.859	.065	77.0	74.0	3.0	72.8	.87	77.4	79.0	„	0.1					
3 „	.846	.033	75.9	74.2	1.7	73.5	.93	76.9	78.8	„	0.1					
4 „	.847	.008	76.4	75.0	1.4	74.4	.94	77.1	78.8	„	0.1					
5 „	.857	.089	76.0	73.0	3.0	71.7	.87	76.4	78.7	„	0.1					
6 „	.883	.244	73.6	68.6	5.0	66.0	.78	74.7	78.4	„	0.1					
7 „	.897	.173	74.7	71.4	3.3	69.9	.86	76.0	78.2	„	0.1					
8 „	.918	.235	75.8	70.6	5.2	68.1	.78	76.6	78.3	„	0.1					
9 „	.930	.233	78.4	71.8	6.6	68.7	.73	78.4	78.7	„	0.0					
10 „	.925	.234	81.8	72.8	9.0	68.4	.66	83.0	79.1	NE	0.2					
11 „	.899	.171	83.0	74.0	9.0	70.0	.66	82.4	79.4	„	0.1	None.	+	1		Above 10m.
Noon.	.871	.088	83.6	75.6	8.0	72.3	.70	82.9	79.6	N	0.1					
1 p. m.	.845	.044	84.4	76.3	8.1	73.0	.70	83.3	80.0	N b W	0.2		+	1		Above 10m.
2 „	.824	28.952	85.0	78.0	7.0	75.3	.74	83.9	80.4	„	0.3		+	1		Above 10m.
3 „	.810	.984	84.6	77.0	7.6	74.0	.72	83.4	80.5	„	0.4		+	1		Above 10m.
4 „	.805	.947	83.6	77.5	6.1	75.1	.77	82.9	80.5	N	0.7		+	3		2.05
5 „	.807	.980	81.7	76.2	5.5	74.0	.78	81.4	80.5	„	0.4		+	3		2.00
6 „	.819	29.041	80.5	74.6	5.9	72.1	.77	80.9	80.2	N b E	0.6		+	4		1.50
7 „	.834	28.998	80.2	76.0	4.2	74.3	.83	80.4	80.0	„	0.6		+	10	10	0.10
8 „	.854	29.005	80.4	76.4	4.0	74.8	.84	80.5	80.0	„	0.6		+	4		0.05
9 „	.868	.074	79.8	74.8	5.0	72.8	.80	80.2	80.2	NNE	0.2		+	4		0.25
10 „	.870	.149	79.0	72.6	6.4	69.7	.84	79.6	80.0	ENE	0.1		+	2		Above 10m.
11 „	.863	.096	78.8	73.8	5.0	71.6	.80	79.4	79.9	NE b N	0.1		+	1		Above 10m.

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩ cumulo-strati; and ≀≀ nimbi.	
6	L	≀ scattered about.	
6	C	" "	
7	C	Densely clouded with ≀.	
8	C	" "	
7	C	" "	
7	H	" "	
7	H	" "	
6	H	" "	
7	H	" "	
6	L	≀ scattered about.	
6	L	≀ scattered about; dew falling.	
6	L	" " "	
5	L	≀ scattered about; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°6 and 82°5.
4	C	" " "	
4	C	≀ scattered about hor., and in E hem.; dew falling.	
4	C	≀ scattered about; dew falling.	
5	C	" " "	
5	H	≀ scattered about.	
2	H	" "	
5	H	≀ and ≀≀ scattered about; haze from N to E hor.	
6	H	" " " " "	
5	L	≀ scattered about.	
3	L	" "	
2	L	" "	
1	L	∩ along E hor.; ≀ scattered here and there about hor.	
2	C	" " " " " "	
1	C	Clouded around hor. as before.	
1	C	" " "	
1	C	∩ along E hor.; ≀≀ above E hor.; ≀ scattered in W.	
1	H	∩ and ≀≀ in hor. as before; ≀ scattered in N.	
1	H	∩ along E hor.; ≀ scattered about here and there.	
1	H	A few clouds in hor., otherwise clear.	
1	H	Clouds in hor. as before.	
1	L	A few clouds around hor.	
3	L	≀≀ scattered along E hor., and in SW, moving W.	
5	L	≀≀ scattered about hor., moving W.	
3	L	≀≀ scattered about hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°5 and 82°5. The range of the Temperature of Evaporation was 9°4, largest during the month.
2	C	" "	
0	C	A few light ≀ in E, otherwise clear.	
1	C	Light ≀ scattered about NE, E, and SE hor.	
3	C	A few patches of ≀≀ about zth., moving W; ≀ scattered about.	
6	H	≀ around hor.; ≀≀ scattered about, the latter moving W.	
2	H	≀ scattered about hor.	
4	H	≀ around hor.; ≀≀ scattered about.	
8	H	≀ around hor.; ≀≀ scattered throughout.	
4	L	≀ and ≀≀ scattered around hor.	
6	L	≀ and ≀≀ scattered throughout.	
7	L	∩ in E hor.; ≀≀ scattered throughout.	
4	L	" " " "	
3	C	∩ along E hor.; ≀ in W; ≀≀ scattered about.	
3	C	" " " " "	
2	C	∩ along E hor.; ≀ scattered around the remainder of hor.	
2	C	Clouded as at 3 P. M.	
1	H	∩ along E hor.; dense ≀ and ≀≀ scattered about hor.	
6	H	∩ in NE, E, and SE hor.; ≀≀ scattered throughout. [50m.	
4	H	Dense ≀ and light ≀≀ scattered about hor.; lightning in E, observed at 7h.	
4	H	Dense ≀ and light ≀≀ scattered about, continuous lightning in E.	
7	L	Densely clouded with ≀≀; light ≀≀, both moving W.	
8	L	Overcast; a few stars dimly visible.	
8	L	Overcast.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Nov. 6th–Midnight	29.859	29.067	78°6	74°4	4°2	72°7	0.83	79°0	79°8	NE b N	0.0		+	5		0.50
1 a. m.	.839	28.958	79.0	76.9	2.1	76.0	.91	79.1	79.8	SE b E	0.0		+	4		37
2 „	.825	.923	78.8	77.3	1.5	76.7	.94	79.2	79.9	„	0.0		+	8	5	23
3 „	.820	.951	77.2	76.0	1.2	75.5	.95	77.8	79.6	„	0.0		+	1		4·00
4 „	.827	.954	76.8	76.0	0.8	75.7	.96	77.5	79.5	SE	0.0		+	2		2.13
5 „	.832	.963	76.4	75.8	0.6	75.5	.97	77.2	79.3	„	0.0		+	26	20	0·05
6 „	.848	29.085	75.8	72.8	3.0	71.5	.87	76.7	79.3	„	0.0		+	15	15	0·12
7 „	.879	.168	74.5	71.0	3.5	69.3	.85	75.8	78.9	„	0.0		+	14	10	0·30
8 „	.892	.133	76.2	72.8	3.4	71.3	.85	77.4	78.9	„	0.0		+	10	6	1·25
9 „	.896	.111	80.2	74.7	5.5	72.4	.78	80.8	79.3	„	0.2		+	4		Above 10m.
10 „	.901	.094	82.8	76.0	6.8	73.2	.74	82.2	79.8	„	0.2		+	3		Above 10m.
11 „	.877	.004	84.0	78.0	6.0	75.7	.77	83.0	80.1	„	0·1		+	10	8	8·00
Noon.	.847	28.968	84.2	78.2	6.0	75.9	.77	83.5	80.3	N	0.2	None.	+	2		Above 10m.
1 p. m.	.820	.975	84.4	77.4	7.0	74.7	.73	83.3	80.5	NW	0.1		+	1		Above 10m.
2 „	.788	.922	84.6	78.0	6.6	75.4	.75	84.0	80.8	„	0.3		+	1		Above 10m.
3 „	.780	.875	84.2	78.8	5.4	76.8	.79	83.2	80.9	NW b N	0.2		+	3		1·15
4 „	.789	.902	82.0	77.8	4.2	76.2	.83	81.8	80.8	„	0.2		+	2		2·40
5 „	.793	.908	81.1	77.5	3.6	76.1	.85	81.2	80.7	NNW	0.2		+	2		2·30
6 „	.821	.930	80.6	77.5	3.1	76.3	.87	80.9	80.6	„	0.0		+	1		Above 10m.
7 „	.837	.954	80.6	77.3	3.3	76.0	.87	80.9	80.5	„	0.1		+	1		Above 10m.
8 „	.856	.982	80.1	77.1	3.0	75.7	.88	80.3	80.5	„	0.1					
9 „	.851	.940	79.8	77.8	2.0	77.0	.92	80.2	80.5	„	0.1					
10 „	.849	.928	79.6	78.0	1.6	77.4	.93	80.2	80.5	„	0.0					
11 „	.840	.926	78.8	77.6	1.2	77.1	.95	79.5	80.4	„	0.0					
Nov. 7th–Midnight	.831	.934	78.2	77.0	1.2	76.5	.95	79.0	80.3	W	0.0					
1 a. m.	.819	.920	78.0	77.0	1.0	76.6	.96	79.0	80.2	„	0.1					
2 „	.807	.899	77.9	77.2	0.7	76.9	.97	78.8	80.1	SW b S	0.1		+	1		0.22
3 „	.808	.907	77.8	77.0	0.8	76.7	.96	78.7	80.0	SSW	0.1					
4 „	.808	.905	77.6	77.0	0.6	76.8	.97	78.7	80.0	„	0.0					
5 „	.812	.931	76.8	76.2	0.6	76.0	.97	77.9	79.8	„	0.0					
6 „	.830	.954	76.5	76.0	0.5	75.8	.98	77.5	79.7	„	0.1					
7 „	.851	.936	78.0	77.4	0.6	77.2	.97	79.0	79.7	„	0.1					
8 „	.873	.960	80.4	78.0	2.4	77.1	.90	81.7	80.2	„	0.1					
9 „	.892	.953	81.8	79.0	2.8	78.0	.89	82.0	80.4	„	0.1		+	2		Above 10m.
10 „	.890	.976	82.6	78.6	4.0	77.1	.84	82.5	80.5	„	0.1		+	1		Above 10m.
11 „	.870	.953	83.8	79.0	4.8	77.2	.81	83.2	80.7	„	0.1	None.	+	1	None.	Above 10m.
Noon.	.847	.894	84.4	80.0	4.4	78.4	.83	83.7	81.0	WSW	0.1		+	1		Above 10m.
1 p. m.	.829	.881	84.8	80.0	4.8	78.3	.81	83.1	81.2	„	0.1		+	3		0.47
2 „	.813	.865	85.2	80.1	5.1	78.3	.80	84.2	81.4	W b S	0.1		+	1		0.10
3 „	.815	.832	85.2	80.9	4.3	79.4	.83	84.4	81.5	„	0.1		+	2		0.10
4 „	.832	.832	85.0	81.0	4.0	80.0	.84	84.2	81.5	W	0.0		+	2		2.27
5 „	.844	.869	82.4	80.0	2.4	79.2	.90	82.6	81.5	„	0.1					
6 „	.856	.892	81.0	79.4	1.6	78.8	.93	81.6	81.2	„	0.0					
7 „	.863	.913	80.8	79.0	1.8	78.3	.92	81.5	81.2	„	0.0					
8 „	.898	.948	79.6	78.2	1.4	77.7	.94	80.2	81.1	„	0.0					
9 „	.893	.926	80.0	79.2	0.8	78.9	.97	80.8	81.0	„	0.0					
10 „	.893	.956	79.6	78.6	1.0	77.9	.96	80.5	80.9	„	0.1					
11 „	.883	.953	78.8	78.0	0.8	77.7	.97	79.6	80.8	SSW	0.1					
Nov. 9th–Midnight	.917	29.022	78.4	77.0	1.4	76.5	.94	79.2	80.4	S b E	0.0					
1 a. m.	.897	.033	77.6	76.0	1.6	75.4	.93	78.6	80.2	„	0.0					
2 „	.889	.005	77.6	76.5	1.1	76.1	.95	78.4	80.1	„	0.0					
3 „	.888	.017	77.0	76.0	1.0	75.6	.96	77.7	80.0	S	0.0					
4 „	.890	.019	77.0	76.0	1.0	75.6	.96	78.0	79.9	„	0.1					
5 „	.901	.030	77.0	76.0	1.0	75.6	.96	77.8	79.9	„	0.1					
6 „	.931	.058	76.8	76.0	0.8	75.7	.97	77.7	79.8	S b E	0.1					
7 „	.959	.042	78.2	77.5	0.7	77.2	.97	79.0	79.8	„	0.1	None.	None.	None.	None.	None.
8 „	.986	.107	80.2	77.1	3.1	75.9	.87	80.5	80.3	SSE	0.1					
9 „	30.002	.117	81.4	77.6	3.8	76.1	.85	81.6	80.5	ESE	0.1					
10 „	29.993	.173	83.0	76.4	6.6	73.7	.75	83.0	80.7	„	0.0					
11 „	.972	.263	85.4	74.2	11.2	69.2	.60	85.2	81.2	„	0.0					

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩≀ cumulo-strati; and ≀≀ nimbi.	
8	L	Overcast with light ≀≀ and ≀≀, both moving W.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°5 and 82°5. At 3 P. M. the reading of Barometer was 29.780, the least during the month; being about 0.070in. lower than the Normal Mean.
5	C	≀≀ and ≀≀ scattered about; dew falling.	
1	C	Light ≀≀ along E hor.; dew falling.	
1	C	" " " "	
1	C	" " " "	
3	H	Patches of ≀≀ scattered about.	
1	H	⌣ and ≀≀ scattered about hor. from N to SW; mist around hor.	
4	H	∩ along E hor.; ≀ and ≀≀ scattered about, the latter moving W.	
6	H	∩ along E hor.; ≀≀ scattered throughout, moving W.	
4	L	" " " " "	
3	L	Dense ≀≀ scattered around hor., and in W and SW; ∩ along E hor.	
4	L	∩ along E hor.; light ≀≀ scattered about, moving W.	
4	L	" " " " " "	
5	C	" " " " " "	
4	C	" " " " " "	
5	C	Clouded as before. [bow observable in NE.	
5	C	∩ in hor. from N to S; ≀≀ and ≀≀ scattered about, moving W; part of a rain-	
8	H	∩ in hor.; ≀≀ scattered throughout, moving W.	
8	H	" " " " "	
8	H	Dense ≀≀ scattered throughout, moving W.	
6	H	" " " "	
7	L	" " " "	
7	L	" " " "	
2	L	≀≀ scattered about hor.; dew falling.	
2	L	≀≀ scattered around hor., and in E.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°7 and 82°6. The reading of Wet Bulb Thermometer at 4 P. M., being greatest in the month was about 6°2 higher than the Normal Mean; at the same hour the Temperature of Dew-point was greatest during the month; the ranges of Barometer and Air Thermometer on this day, were smallest in the month.
2	C	Patches of ≀≀ scattered here and there.	
2	C	≀≀ scattered about hor.	
3	C	≀≀ scattered about hor., moving N.	
3	C	≀≀ scattered around hor., and in SE and S.	
1	H	≀ scattered along E hor.; ≀≀ in NW and N hor.	
2	H	≀ around hor.; patches of ≀≀ scattered here and there.	
1	H	≀ mist in hor., otherwise clear.	
1	H	" " "	
0	L	∩ along E hor.	
1	L	∩ and ≀ along E hor.	
1	L	∩ along E hor.; ≀ around hor.	
2	L	∩ and ≀ scattered about hor.	
2	C	∩ along E; ≀ and ≀≀ around hor.	
2	C	∩ around hor.; fleecy clouds scattered about zth.	
2	C	∩ and ≀ around hor.; flecy clouds scattered about, moving NE.	
4	C	∩ in hor.; ≀ and fleecy clouds scattered about, moving ENE.	
4	L	∩ along E hor.; ≀ and ≀≀ scattered about; part of a rainbow visible in E.	
7	L	≀ and ≀≀ scattered throughout, the latter moving E.	
7	L	Clouded as before; lightning in E at intervals of about 10m.	
3	L	" " " " "	
7	L	" " " " "	
7	L	≀≀ scattered throughout, moving SW.	
2	L	≀≀ scattered about hor.	
2		Patches of ≀≀ scattered about hor.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 82°9. On this day Wind blew in a direct circular motion.
1		≀ scattered around hor., otherwise clear.	
1		" " " " "	
2		≀ around hor.; patches of ≀≀ scattered about zth., moving W.	
2		" " " " " " " "	
1		≀ scattered around hor.; dew falling.	
1		" " "	
0		A few ≀ in E and SW; dew falling.	
0		A few ≀ in E and SW; fog along E hor., and in the remainder of hor.	
0		Mist in hor. from SW to NE.	
0		" " "	
0		Mist along W hor.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 0 feet in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Strokes of Volta 1.	Readings of Strokes of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Nov. 9th-Noon.	29.947	29.252	87°4	74°4	13°0	68°6	0.55	86°5	81°5	ESE	0.1					
1 p. m.	.923	.089	87.5	78.0	9.5	74.3	.66	86.1	81.8	W b S	0.1					
2 „	.903	.021	87.7	79.2	8.5	76.0	.69	86.3	82.0	NW	0.2					
3 „	.898	.058	87.0	78.0	9.0	74.5	.67	86.0	82.0	N b W	0.4					
4 „	.900	.093	86.7	77.1	9.6	73.2	.66	85.5	82.1	„	0.5					
5 „	.911	.118	84.1	76.0	8.1	72.7	.70	83.5	82.0	„	0.2	None.			None.	
6 „	.922	.178	82.2	74.2	8.0	70.7	.69	82.2	81.7	„	0.4					
7 „	.940	.086	82.1	77.0	5.1	75.0	.80	82.1	81.6	N	0.3					
8 „	.947	.090	81.4	76.9	4.5	75.1	.81	81.5	81.5	„	0.8					
9 „	.952	.131	80.8	75.8	5.0	73.8	.80	81.0	81.4	„	0.4					
10 „	.958	.204	78.6	73.4	5.2	71.1	.79	79.2	81.1	NNE	0.1		+	6		0.35
11 „	.937	.179	77.6	73.2	4.4	71.3	.82	78.4	80.8	„	0.0		+	3		2.00
Nov. 10th-Midnight	.922	.175	76.6	72.6	4.0	70.8	.83	77.8	80.4	NNE	0.0			4		2.00
1 a. m.	90.1	.163	75.4	72.0	3.4	70.5	.85	76.6	80.0	„	0.0					
2 „	.888	.192	74.5	70.8	3.7	68.6	.84	75.5	79.7	„	0.1					
3 „	.885	.206	74.3	70.0	4.3	69.9	.81	75.4	79.5	„	0.1					
4 „	.892	.221	75.0	70.0	5.0	67.5	.79	75.8	79.4	NE	0.0					
5 „	.893	.158	75.6	72.0	3.6	70.3	.85	76.0	79.3	ENE	0.1					
6 „	.921	.196	75.6	71.7	3.9	69.9	.83	76.0	79.2	„	0.2		+	1		Above 10m.
7 „	.942	.210	76.6	72.2	4.4	70.2	.82	77.0	79.2	E	0.1		+	4		2.15
8 „	.955	.235	78.3	72.4	5.9	69.7	.76	78.8	79.5	E b N	0.1		+	1		Above 10m.
9 „	.974	.285	79.6	72.0	7.8	68.3	.69	79.8	79.6	NE b E	0.2					
10 „	.968	.284	81.6	72.4	9.2	68.1	.65	81.4	79.9	„	0.2					
11 „	.951	.299	83.2	72.0	11.2	66.0	.59	83.2	80.2	„	0.1	None.			None.	
Noon.	.919	.357	84.8	70.0	14.8	62.1	.48	84.0	80.4	„	0.1					
1 p. m.	.884	.266	86.6	72.1	14.5	65.0	.50	85.2	80.8	NE	0.0		+	2		Above 10m.
2 „	.858	.167	88.1	74.5	13.6	68.4	.54	86.0	81.1	NNW	0.1		+	2		Above 10m.
3 „	.844	.124	87.2	75.0	12.2	69.7	.57	85.5	81.3	NW b N	0.2		+	2		Above 10m.
4 „	.849	.276	85.9	73.4	12.5	67.6	.55	84.2	81.3	NW	0.3		+	2		Above 10m.
5 „	.861	.154	83.2	73.5	9.7	69.2	.64	82.2	81.0	„	0.2		+	2		Above 10m.
6 „	.876	.158	81.2	73.2	8.0	69.6	.69	81.2	80.9	NNW	0.3		+	1		Above 10m.
7 „	.895	.157	80.4	73.5	6.9	70.5	.73	80.2	80.7	„	0.4		+	1		Above 10m.
8 „	.906	.161	79.8	73.5	6.3	70.8	.75	80.0	80.5	„	1.2		+	1		Above 10m.
9 „	.911	.209	78.6	72.0	6.6	68.9	.73	79.0	80.5	N b W	0.0		+	1		Above 10m.
10 „	.908	.170	77.0	72.5	4.5	70.5	.81	77.6	80.1	„	0.0		+	1		Above 10m.
11 „	.900	.169	76.0	72.0	4.0	70.2	.83	76.9	79.7	„	0.0		+	10	8	4.00
Nov. 19th-Midnight	.884	.182	75.4	71.0	4.4	68.9	.81	76.4	79.6	N b W	0.0		+	2		Above 10m.
1 a. m.	.868	.215	74.2	69.2	5.0	66.7	.78	75.3	79.2	„	0.0					Above 10m.
2 „	.853	.168	73.6	70.0	3.6	68.2	.84	74.9	78.9	„	0.0		+	1		Above 10m.
3 „	.845	.156	73.4	70.0	3.4	68.3	.85	74.5	78.8	„	0.0		+	3		Above 10m.
4 „	.852	.230	73.4	68.0	5.4	65.2	.77	74.2	78.6	NE b E	0.1		+	2		Above 10m.
5 „	.864	.177	73.5	70.0	3.5	68.2	.85	74.2	78.4	„	0.1		+	10	8	0.15
6 „	.883	.206	73.2	69.6	3.6	67.8	.84	74.1	78.2	„	0.1		+	6	4	2.00
7 „	.905	.236	74.0	69.6	4.4	67.4	.81	74.6	78.2	E b N	0.1		+	6	4	0.10
8 „	.934	.259	76.2	70.5	5.7	67.7	.76	76.9	78.4	E	0.1		+	4		1.00
9 „	.945	.274	78.2	71.0	7.2	67.5	.71	78.5	78.7	„	0.2					
10 „	.940	.270	80.2	71.6	8.6	67.5	.67	80.2	79.0	„	0.1					
11 „	.926	.236	81.0	72.4	8.6	68.4	.67	80.7	79.3	„	0.1	None.				
Noon.	.897	.276	82.6	71.0	11.6	65.2	.57	81.8	79.5	E b N	0.1					
1 p. m.	.879	.340	83.9	69.0	14.9	60.9	.48	82.6	79.7	„	0.0		+	1		Above 10m.
2 „	.862	.241	86.0	72.0	14.0	65.2	.51	84.1	80.5	NW b N	0.0		+	2		Above 10m.
3 „	.855	.198	86.0	73.0	13.0	66.9	.54	84.1	80.5	NW b W	0.2		+	2		Above 10m.
4 „	.857	.174	85.0	73.4	11.6	68.1	.58	83.4	80.5	WNW	0.1		+	1		Above 10m.
5 „	.868	.199	81.6	72.0	9.6	67.4	.64	80.9	80.3	„	0.1		+	2		Above 10m.
6 „	.885	.262	79.4	70.0	9.4	65.3	.63	79.4	80.0	„	0.1		+	4		2.00
7 „	.915	.250	79.1	71.1	8.0	67.2	.68	79.2	79.7	„	0.1		+	10	8	0.25
8 „	.933	.267	78.6	71.0	7.6	67.3	.70	78.7	79.5	NNW	0.1		+	4		1.50
9 „	.938	.268	76.4	70.4	6.0	67.5	.75	76.7	79.4	„	0.0		+	Out of Sc.	32	0.10
10 „	.938	.267	75.0	70.0	5.0	67.5	.79	76.2	79.1	„	0.0		+	3		Above 10m.
11 „	.935	.280	74.0	69.2	4.8	66.8	.79	74.8	78.7	„	0.0		+	3		1.30

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩≀ cumuli; ∪≀ cirro-strati; ∩∪≀ cumulo-strati; and ∨∪≀ nimbi.	
0		Cloudless.	
0		A few pieces of ≀≀ in SE and NW hor.; ≀ in S hor.	
0		≀≀ in NW, N, and NE hor.; ≀ in S hor.	
0		≀≀ in N hor.; ≀ scattered in SE, S, and SW above hor.	
0		≀ scattered along E hor.	
0		≀ scattered in hor. from E to W.	
0		"	
0		A few ≀ in S and SW hor., otherwise clear.	
0		" " " " "	
0		Clear, except in hor.	
0		" " "	
0		" " "	
0	L	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 82°9.
0	C	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	H	"	
0	H	≀ scattered here and there about hor.; mist in hor.	
0	H	≀ scattered in NW, N, and SE above hor.	
0	H	≀ scattered about hor. from SE to N.	
0	L	A few ≀ in N, NE, SE, S, and SW hor.	
0	L	" " " "	
0	L	≀ scattered about hor. from SE to SW.	
0	L	"	
0	C	A few ≀ in E, SE, S, and SW hor.	
1	C	≀ scattered around hor.	
1	C	" "	
1	C	≀ scattered around hor., and about 2th.	
0	H	≀ scattered around hor., except in NE.	
0	H	≀ scattered in SW, W, and E.	
0	H	A few ≀ in SW and W, otherwise clear.	
0	H	" " " "	
0	L	Clear.	
0	L	"	
0	L	Clear; dew falling.	
0	L	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 82°9.
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	H	" "	
0	H	≀ scattered along E hor., and in SE; mist in hor.	
0	H	≀ scattered about hor. from E to SW; mist in hor.	
0	H	"	
0	L	≀ in E, SE, and S hor.; mist in W, NW, and N hor.	
0	L	" " " " " "	
0	L	≀ scattered about hor. in SE and S; mist in W, NW, and N hor.	
0	L	A few ≀ scattered in SE and S; mist in W, NW, and N hor.	
0	C	A few ≀ in SW hor.	
0	C	≀ scattered in SW hor.	
0	C	A few ≀ in SE, S, and SW hor.	
0	C	≀ scattered in hor. from E to SW.	
0	H	A few ≀ in hor. from E to SW.	
0	H	" " " "	
0	H	Clear, except in hor.	
0	H	" " "	
0	L	" " "	
0	L	Clear; dew falling.	
0	L	" "	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in seconds during the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Nov. 12th-Midnight	29.928	29.272	74°4	69°4	5°0	66°8	0.79	75°2	78°4	NNE	0.0		+	5		3.00
1 a. m.	.923	.262	74.0	69.4	4.6	67.1	.80	74.9	78.4	NE	0.0		+	2		Above 10m.
2 „	.905	.246	73.0	69.0	4.0	67.0	.82	74.0	78.1	„	0.0		+	3		Above 10m.
3 „	.903	.240	72.6	69.0	3.6	67.2	.84	73.8	77.9	„	0.0		+	1		Above 10m.
4 „	.906	.247	73.0	69.0	4.0	67.0	.82	73.8	77.8	„	0.0		+	1		Above 10m.
5 „	.921	.274	72.9	68.6	4.3	66.4	.81	73.5	77.7	„	0.0		+	1		Above 10m.
6 „	.940	.323	72.6	67.6	5.0	65.0	.78	73.5	77.5	„	0.1					
7 „	.968	.303	74.0	69.5	4.5	67.2	.81	74.4	77.5	NE b E	0.1					
8 „	.993	.322	75.0	70.0	5.0	67.5	.79	75.2	77.6	„	0.1					
9 „	30.014	.337	77.0	70.8	6.2	67.8	.74	76.8	77.9	„	0.2					
10 „	.006	.309	78.4	71.8	6.6	68.7	.73	78.4	78.1	„	0.1					
11 „	29.986	.323	80.2	81.4	8.8	67.2	.66	80.2	78.4	„	0.2					
Noon.	.957	.351	83.3	80.8	12.5	64.4	.55	82.4	78.9	„	0.1	None.	+	1		Above 10m.
1 p. m.	.929	.218	84.6	84.0	10.6	69.3	.62	83.2	79.4	NNW	0.1					
2 „	.909	.208	84.8	83.8	11.0	68.9	.60	83.4	79.6	„	0.2					
3 „	.902	.193	84.8	74.0	10.8	69.2	.61	83.2	79.8	„	0.2		+	1		Above 10m.
4 „	.908	.210	84.0	73.5	10.5	68.8	.62	82.7	79.9	NW b N	0.2					
5 „	.917	.218	81.6	72.8	8.8	68.8	.67	81.2	79.9	„	0.1		+	1		Above 10m.
6 „	.925	.214	79.9	72.6	7.3	69.3	.71	79.8	79.6	NNW	0.1		+	1		Above 10m.
7 „	.951	.246	79.0	72.2	6.8	69.0	.73	79.2	79.5	N b W	0.1		+	4		1.05
8 „	.971	.209	78.6	73.6	5.0	71.4	.80	78.9	79.5	N	0.1		+	14	10	0.03
9 „	.981	.213	77.8	73.5	4.3	71.7	.82	78.0	79.3	„	0.1		+	Out of Sc.	50	0.10
10 „	.981	.287	75.4	70.8	4.6	68.6	.80	75.6	79.1	„	0.0		+	20	18	0.12
11 „	.970	.337	75.4	69.0	6.4	65.7	.73	76.0	78.7	NE	0.0		+	3		Above 10m.
Nov. 13th-Midnight	.954	.252	75.4	71.0	4.4	68.9	.81	76.0	78.7	NE	0.1		+	4		Above 10m.
1 a. m.	.945	.321	74.7	68.5	6.2	65.3	.74	75.1	78.5	„	0.1		+	4		Above 10m.
2 „	.935	.318	73.8	68.0	5.8	65.0	.75	74.5	78.1	„	0.0		+	3		Above 10m.
3 „	.933	.298	72.2	68.0	4.2	65.8	.81	73.2	77.7	„	0.0		+	4		Above 10m.
4 „	.944	.282	72.4	68.9	3.5	67.1	.84	73.5	77.6	„	0.1		+	2		1.50
5 „	.954	.321	71.8	67.8	4.0	65.7	.82	72.7	77.5	„	0.1		+	4		2.00
6 „	.977	.311	71.8	68.8	3.0	67.3	.87	72.9	77.2	„	0.1		+	14	10	0.10
7 „	.996	.327	73.3	69.4	3.9	67.4	.83	74.0	77.3	NE b E	0.1		+	4		3.00
8 „	30.024	.338	75.5	70.3	5.2	67.8	.78	76.0	77.5	ENE	0.1		+	8	6	1.00
9 „	.043	.403	77.8	70.8	7.0	66.1	.72	77.8	77.9	„	0.2		+	6	6	Above 10m.
10 „	.036	.370	80.6	71.6	9.0	67.3	.65	80.7	78.3	„	0.1		+	1		Above 10m.
11 „	.013	.320	82.2	72.8	9.4	68.5	.65	81.6	78.7	„	0.1		+	1		Above 10m.
Noon.	29.984	.367	83.0	71.0	12.0	65.0	.56	82.4	78.9	N	0.1	None.				
1 p. m.	.957	.325	85.0	72.0	13.0	65.7	.54	83.5	79.3	NW b N	0.1		+	2		Above 10m.
2 „	.944	.242	85.4	74.0	11.4	68.9	.59	84.0	79.7	„	0.1		+	2		Above 10m.
3 „	.937	.204	86.0	75.0	11.0	70.3	.61	84.3	80.0	„	0.1		+	3		Above 10m.
4 „	.938	.236	85.4	74.0	11.4	68.9	.59	83.7	80.1	„	0.1		+	2		Above 10m.
5 „	.948	.285	82.2	72.0	10.2	67.2	.62	81.4	80.0	NW	0.1		+	6	4	Above 10m.
6 „	.964	.247	80.6	73.0	7.6	69.6	.70	80.2	79.6	„	0.1		+	6	4	Above 10m.
7 „	.980	.251	79.5	73.0	6.5	70.1	.74	79.4	79.6	NNW	0.1		+	10	8	3.00
8 „	.995	.285	77.9	72.0	5.9	69.3	.76	78.2	79.4	„	0.1		+	4		2.00
9 „	.998	.257	76.4	72.4	4.0	70.6	.83	76.8	79.1	„	0.0		+	Our of Sc.	40	0.08
10 „	30.008	.364	75.4	69.0	6.4	66.3	.73	76.2	78.8	„	0.1		+	5		Above 10m.
11 „	.002	.374	74.0	68.4	5.6	65.5	.76	74.6	78.4	„	0.0		+	2		Above 10m.
Nov. 14th-Midnight	29.994	.307	74.2	70.2	4.0	68.2	.83	74.7	78.3	NNW	0.0		+	15	13	0.20
1 a. m.	.989	.283	74.0	70.7	3.3	69.1	.86	74.9	78.2	„	0.0		+	13	12	1.25
2 „	.983	.280	73.0	70.3	2.7	69.0	.88	74.1	78.0	„	0.0		+	4		1.00
3 „	.974	.282	73.1	70.0	3.1	68.5	.86	74.2	77.8	NE b N	0.1		+	3		Above 10m.
4 „	.973	.309	73.2	69.2	4.0	67.2	.83	74.2	77.6	NE	0.1		+	4		Above 10m.
5 „	.983	.313	73.2	69.4	3.8	67.5	.83	74.2	77.5	NE b E	0.1	None.	+	10	8	0.30
6 „	30.005	.316	73.4	70.0	3.4	68.3	.85	74.2	77.5	„	0.1		+	16	14	0.15
7 „	.024	.353	73.8	69.6	4.2	67.5	.82	74.7	77.4	ENE	0.1		+	22	18	0.26
8 „	.040	.362	75.7	70.4	5.3	67.9	.78	76.0	77.6	E	0.2		+	14	15	1.20
9 „	.048	.390	77.8	70.5	7.3	66.9	.71	78.0	77.9	„	0.3		+	4		Above 10m.
10 „	.041	.455	80.2	69.2	11.0	68.2	.58	80.2	78.2	„	0.1		+	3		Above 10m.
11 „	.014	.391	81.8	70.8	11.0	65.3	.59	81.1	78.6	„	0.1		+	2		Above 10m.

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩⌣ cumulo-strati; and ≀∩ nimbi.	
0	L	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 81°0 and 83°0.
0	C	" "	
1	C	A few ≀ in hor.; dew falling.	
2	C	≀ scattered here and there.	
2	C	≀ scattered around hor., and in E hem.	
2	H	≀ scattered as before; a lunar-halo.	
5	H	≀ and ≀≀ scattered about; mist in hor.	
6	H	" " " "	
2	H	≀ scattered in E hem.; mist around hor.	
1	L	" " " "	
1	L	A few ≀ scattered about hor. from E to SW; mist in NW and N.	
0	L	" " " " " " "	
0	L	" " " " " " "	
0	C	A few ≀ in N, E, S, and SW above hor.	
0	C	A few ≀ E, SE, S, and SW, otherwise clear.	
0	C	A few ≀ in SE, S, and W, otherwise clear.	
0	C	≀ in W, otherwise clear.	
0	H	A few ≀ in SE and W hor.	
0	H	" " "	
0	H	Clear, except in hor.	
0	H	" "	
0	L	" "	
0	L	Clear; dew falling.	
0	L	" "	
0	L	Clear; dew falling	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°8 and 82°8. 13th November was the twenty-fifth cloudless day from the beginning of the year.
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	H	" "	
0	H	Mist in hor.	
0	H	" "	
0	H	" "	
0	L	Mist along W hor.	
0	L	" "	
0	L	" "	
0	L	Mist in W and NW hor.	
0	C	" " "	
0	C	Clear.	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	"	
0	L	"	
0	L	Clear; dew falling	
0	L	" "	
0	L	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°5 and 82°6. 14th November was the twenty-sixth cloudless day from the beginning of the year.
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	F	" "	
0	H	Mist around hor.	
0	H	" "	
0	H	" "	
0	L	" "	
0	L	Light mist along W hor.	
0	L	" " "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet-Bulb Thermometer.	Depression of Wet-Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 Inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Nov. 14th–Noon.	29.982	29.417	82°8	69°4	13°4	62°3	0.52	82°0	78°8	E	0.0		+	1		Above 10m.
1 p. m.	.951	.265	84.1	68.2	15.9	59.2	.60	82.8	79.1	„	0.0		+	1		Above 10m.
2 „	.929	.474	85.6	67.1	18.5	55.8	.38	84.2	79.5	„	0.0		+	1		Above 10m.
3 „	.918	.321	86.8	71.6	15.2	64.0	.48	84.7	79.8	E b N	0.0		+	2		Above 10m.
4 „	.910	.271	86.3	72.6	13.7	66.0	.52	84.1	80.0	NW	0.1		+	2		Above 10m.
5 „	.920	.210	82.6	73.4	9.2	69.3	.66	81.5	79.7	NW b N	0.1		+	2		Above 10m.
6 „	.929	.239	80.4	72.2	8.2	68.4	.68	80.2	79.5	„	0.1	None.	+	2		Above 10m.
7 „	.953	.259	79.4	72.0	7.4	68.6	.71	79.4	79.4	„	0.1		+	1		Above 10m.
8 „	.969	.253	79.0	72.5	6.5	69.5	.74	79.1	79.3	N	0.2					
9 „	.977	.223	78.6	73.4	5.2	71.1	.79	78.4	79.2	„	0.1		+	14	12	0.10
10 „	.976	.290	76.8	71.0	5.8	68.2	.76	76.9	79.0	„	0.1		+	20	16	0.07
11 „	.964	.338	74.8	68.6	6.2	65.4	.74	75.5	78.6	„	0.1		+	10	8	3.00
Nov. 16th–Midnight	.968	.309	73.0	69.0	4.0	67.0	.82	73.7	77.5	WNW	0.0					
1 a. m.	.956	.244	73.8	70.8	3.0	69.3	.87	74.3	77.3	S	0.1		+	2		0.17
2 „	.949	.283	72.4	79.0	3.4	67.3	.85	73.1	77.2	„	0.0					
3 „	.945	.292	71.5	68.3	3.2	66.7	.86	72.4	77.0	„	0.0					
4 „	.947	.277	72.0	69.0	3.0	67.5	.87	73.0	76.8	„	0.1					
5 „	.959	.300	71.8	68.6	3.2	67.0	.86	72.7	76.7	SSE	0.1					
6 „	.989	.357	71.2	67.6	3.6	65.7	.84	72.2	76.5	SE b E	0.1					
7 „	30.011	.376	72.2	68.0	4.2	65.8	.81	72.9	76.5	E b S	0.3					
8 „	.033	.425	74.6	68.0	6.6	64.6	.72	74.9	76.6	E	0.1					
9 „	.052	.437	77.0	69.0	8.0	64.9	.68	77.7	77.0	„	0.3					
10 „	.055	.414	79.6	70.6	9.0	63.7	.66	79.0	77.5	„	0.1					
11 „	.029	.396	79.8	70.4	9.4	65.5	.64	79.4	77.7	E b N	0.1					
Noon.	.007	.402	82.2	70.4	11.8	65.8	.57	81.4	78.2	E	0.2					
1 p. m.	29.968	.352	84.4	71.4	13.0	64.9	.53	83.2	78.5	ESE	0.1	None.				
2 „	.946	.355	85.4	71.0	14.4	63.7	.50	83.4	78.8	WNW	0.1					
3 „	.935	.307	85.4	72.0	13.4	65.5	.53	83.9	79.1	„	0.2					
4 „	.936	.302	84.8	72.0	12.8	65.8	.55	83.2	79.3	NW	0.3					
5 „	.949	.286	81.9	71.9	10.0	67.2	.62	81.9	79.2	NNW	0.2					
6 „	.958	.286	79.8	71.5	8.3	67.6	.68	79.5	79.0	„	0.3					
7 „	.987	.337	78.8	70.9	7.9	66.6	.69	79.1	78.9	„	0.2		+	1	66	6.00
8 „	30.010	.289	78.6	72.5	6.1	69.7	.75	78.6	78.9	N b W	0.3					
9 „	.011	.356	75.8	69.0	6.8	66.8	.72	76.0	78.5	N	0.1		+	4		1.30
10 „	.015	.461	73.6	66.0	7.6	61.7	.63	74.9	78.0	„	0.0		+	3		3.00
11 „	.002	.428	73.6	66.6	7.0	62.8	.70	74.4	77.8	„	0.0		+	1		Above 10m.
Nov. 17th–Midnight	29.995	.253	75.0	72.0	3.0	70.6	.87	75.4	77.8	ENE	0.0		+	Out of Sc.	25	0.40
1 a. m.	.987	.346	74.6	69.0	5.6	66.1	.76	74.9	77.7	„	0.1		+	11	8	1.25
2 „	.982	.293	74.3	70.3	4.0	68.3	.83	74.9	77.6	„	0.1		+	8	7	1.29
3 „	.983	.317	73.4	69.0	4.4	67.3	.81	74.0	77.5	„	0.0		+	1		2.30
4 „	.987	.345	73.0	68.5	4.5	66.2	.80	73.8	77.2	„	0.1		+	2		1.18
5 „	.993	.363	72.6	68.0	4.6	65.6	.80	73.0	77.0	„	0.1					
6 „	30.017	.387	72.6	68.0	4.6	65.6	.80	73.2	77.0	NE b N	0.1		+	1		Above 10m.
7 „	.038	.427	73.8	67.8	6.0	64.7	.74	74.2	76.9	ENE	0.2		+	1		Above 10m.
8 „	.061	.492	76.4	67.4	9.0	62.5	.64	76.6	77.1	E b N	0.1		+	2		Above 10m.
9 „	.074	.503	79.2	68.4	10.8	62.6	.59	79.2	77.5	„	0.3		+	2		Above 10m.
10 „	.072	.488	81.6	69.6	12.0	63.3	.56	81.4	78.0	„	0.3		+	2		Above 10m.
11 „	.042	.448	83.2	70.4	12.8	63.8	.54	83.0	78.5	NE b E	0.3		+	1		Above 10m.
Noon.	.013	.457	85.4	70.0	15.4	61.8	.46	84.4	79.0	NE	0.4					
1 p. m.	29.968	.432	87.2	70.0	17.2	60.7	.43	86.3	79.5	„	0.1	None.	+	2		Above 10m.
2 „	.946	.448	88.2	69.2	19.0	58.5	.38	86.5	80.0	„	0.0		+	2		Above 10m.
3 „	.930	.230	89.0	75.0	14.0	68.8	.53	86.2	80.1	NNW	0.2		+	2		Above 10m.
4 „	.934	.166	86.4	76.0	10.4	71.7	.63	84.1	80.2	„	0.2					
5 „	.949	.180	82.7	75.0	7.7	71.7	.71	81.9	80.0	„	0.1					
6 „	.956	.271	80.2	72.0	8.2	68.1	.68	80.2	79.7	N	0.3					
7 „	.974	.283	79.6	72.0	7.6	68.5	.70	79.4	79.5	„	0.4		+	1		Above 10m.
8 „	.983	.352	78.6	70.0	8.6	65.6	.66	78.7	79.4	„	0.4		+	2		Above 10m.
9 „	.986	.357	77.6	69.6	8.0	65.5	.68	77.8	79.2	„	0.3					
10 „	.989	.346	76.0	69.5	6.5	66.2	.73	76.2	78.8	„	0.0		+	22	20	1.10
11 „	.982	.387	73.4	67.2	6.2	63.9	.73	74.2	78.3	„	0.0		+	Out of Sc.	30	0.30

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩ cumulo-strati; and ≤ nimbi.	
0	L	Light mist along W hor.	
0	C	Clear.	
0	C	,,	
0	C	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	L	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°4 and 82°6.
0	C	,, ,,	
0	C	,, ,,	
0	C	,, ,,	
0	C	,, ,,	
0	H	,, ,,	
1	H	≤ and mist around hor.	
1	H	,, ,,	
1	H	,, ,,	
1	L	≤ scattered around hor.; mist along W hor.	
0	L	A few ≤ scattered here and there.	
1	L	≤ scattered about hor. from E to W.	
1	L	,, ,, ,,	
0	H	A few ≤ scattered in E, SW, and W.	
0	H	≤ scattered here and there.	
1	H	≤ scattered in E hem.	
1	H	,, ,,	
0	C	A few ≤ scattered along E hor.	
1	H	A few ≤ in SW and W hor.	
0	C	Clear.	
0	C	,,	
0	L	,,	
0	L	Clear; dew falling.	
0	L	,, ,,	
0	L	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°2 and 82°5. The height of Standard Barometer at 9 A. M. was 30.074, greatest during the month, and about 0.096in. greater than the Normal Mean; the Temperature of Free Air at 3 P. M. was greatest in the month, being about 4°6 higher than the Normal Mean, and its range was also greatest in the month. 17th November was the twenty-seventh cloudless day from the beginning of the year.
0	C	,, ,,	
0	C	,, ,,	
0	C	,, ,,	
0	C	,, ,,	
0	H	,, ,,	
0	H	Mist around hor.	
0	H	,, ,,	
0	H	,, ,,	
0	L	,, ,,	
0	L	Light mist in W and NW hor.	
0	L	Clear.	
0	L	,,	
0	C	,,	
0	C	,,	
0	C	,,	
0	C	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	L	,,	
0	L	Clear; dew falling.	
0	L	,, ,,	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Nov. 18th-Midnight	29.971	29.334	75°0	69°0	6°0	65°9	0.75	75°6	78°2	NE b E	0.2		+	Out of Sc.	25	0.20
1 a. m.	.965	.372	74.9	67.5	7.4	63.8	.69	75.3	78.0	„	0.2		+	Out of Sc.	27	0.18
2 „	.963	.326	75.0	69.0	6.0	65.9	.75	75.3	78.0	„	0.2		+	9	9	2·03
3 „	.966	.420	74.4	66.0	8.4	61.3	.65	75.2	77.8	„	0.4		+	3		Above 10m.
4 „	.967	.409	74.4	66.4	8.0	62.0	.67	74.9	77.6	ENE	0·4		+	2		Above 10m.
5 „	.961	.413	73.6	65.8	7.8	61.4	.67	73.9	77.5	„	0·6		+	3		Above 10m.
6 „	.985	.491	73.4	64.0	9.4	58.3	.61	73.8	77.3	„	0·4		+	1		Above 10m.
7 „	.993	.497	74.6	64.5	10.1	58.4	.59	74.8	77.2	E	0·3		+	1		Above 10m.
8 „	30.017	.528	76.6	65.0	11.6	58.0	.56	76.4	77.4	E b S	0.2		+	2		Above 10m.
9 „	.029	.550	78.4	65.3	13.1	57.3	.50	78.2	77.7	E	0.3		+	2		Above 10m.
10 „	.022	.477	80.4	68.0	12.4	61.2	.53	79.9	78.0	ENE	0·3		+	3		Above 10m.
11 „	.000	.456	82.0	68.5	13.5	61.2	.51	81.6	78.5	„	0·3		+	2		Above 10m.
Noon.	29.966	.403	84.7	70.0	14.7	62.2	.48	84.1	79.0	„	0·2	None.	+	1		Above 10m.
1 p. m.	.933	.414	85.6	69.0	16.6	59.7	.44	84.2	79.3	NE b E	0.0		+	3		Above 10m.
2 „	.915	.438	85.2	67.6	17.6	57.2	.40	84.2	79.5	„	0·0		+	3		Above 10m.
3 „	.915	.411	85.8	68.6	17.2	58.9	.42	84.2	79.6	N	0·1		+	2		Above 10m.
4 „	.917	.269	84.2	72.2	12.0	66.5	.57	82.4	79.7	WNW	0·3		+	3		Above 10m.
5 „	.924	.260	80.8	71.6	9.2	67.2	.65	80.0	79.5	„	0.2		+	2		Above 10m.
6 „	.949	.266	78.8	71.5	7.3	68.1	.71	78.8	79.2	„	0.2		+	1		Above 10m.
7 „	.970	.311	78.0	70.6	7.4	67.0	.70	78.2	79.0	„	0.2					
8 „	.978	.333	77.4	70.0	7.4	66.3	.70	77.5	78.9	N b W	0.3		+	4		Above 10m.
9 „	.983	.381	76.4	68.4	8.0	64.3	.68	76.8	78.7	„	0.1		+	2		Above 10m.
10 „	.989	.420	73.4	66.4	7.0	62.5	.70	74.4	78.3	N	0.0		+	6		Above 10m.
11 „	.976	.393	72.8	66.6	6.2	63.2	.73	73.6	77.8	„	0.0		+	12	10	1.00
Nov. 19th-Midnight	.968	.379	72.2	66.6	5.6	63.5	.75	72.1	77.6	N	0.0		+	Out of Sc.	35	0·15
1 a. m.	.957	.342	71.0	67.0	4.0	64.9	.82	72.2	77.0	„	0.0		+	Out of Sc.	24	1·33
2 „	.952	.348	72.0	67.0	5.0	67.3	.78	73.0	77.0	NE b N	0.0		+	Out of Sc.	24	1.00
3 „	.950	.342	72.2	67.2	5.0	64.5	.78	72.8	77.0	ENE	0.1		+	9	7	0.34
4 „	.956	.396	71.3	65.4	5.9	62.1	.74	72.1	76.8	„	0.2		+	9	7	1.05
5 „	.960	.363	71.2	66.5	4.7	64.0	.79	72.0	76.5	„	0.1		+	Out of Sc.	28	0.05
6 „	.980	.451	71.0	64.3	6.7	60.3	.71	71.8	76.4	„	0.2		+	2		Above 10m.
7 „	30.000	.464	71.8	64.8	7.0	60.7	.70	72.2	76.3	E b N	0.2		+	8	6	3.00
8 „	.022	.481	73.4	65.5	7.9	61.0	.61	73.9	76.3	„	0.2		+	13	10	0.30
9 „	.038	.464	76.4	67.6	8.8	62.8	.65	76.0	76.7	„	0.2		+	12	12	0.25
10 „	.021	.461	77.8	67.6	10.2	62.1	.60	77.6	77.0	E	0.3		+	4		Above 10m.
11 „	29.998	.438	79.0	68.0	11.0	62.1	.58	78.2	77.3	„	0.1		+	2		Above 10m.
Noon.	.964	.532	80.6	64.6	16.0	54.3	.42	79.9	77.5	„	0.1	None.	+	2		Above 10m.
1 p. m.	.928	.433	82.4	67.9	14.5	58.3	.46	81.3	77.9	E b N	0.0		+	6		Above 10m.
2 „	.905	.351	83.5	69.3	14.2	61.7	.50	82.2	78.3	NW b N	0.0		+	6		Above 10m.
3 „	.896	.343	84.4	69.6	14.8	61.7	.48	82.6	78.3	„	0.1		+	4		Above 10m.
4 „	.901	.278	83.8	71.4	12.4	65.3	.55	82.2	78.7	„	0.1		+	3		Above 10m.
5 „	.916	.269	80.4	71.0	9.4	66.4	.64	79.4	78.5	„	0.1		+	4		Above 10m.
6 „	.930	.301	78.2	69.8	8.4	65.5	.67	78.0	78.3	„	0.2		+	8	6	3·00
7 „	.951	.338	77.2	69.0	8.2	64.8	.67	77.3	78.1	N b W	0.4		+	3		Above 10m.
8 „	.964	.315	77.0	70.0	7.0	66.5	.71	77.1	78.0	„	0.4		+	3		Above 10m.
9 „	.973	.315	76.2	70.0	6.2	67.0	.74	76.4	78.0	„	0.1		+	7	7	0.20
10 „	.975	.340	74.0	68.6	5.4	65.8	.77	74.6	77.7	„	0.0		+	23	20	0.45
11 „	.972	.379	73.0	67.0	6.0	63.8	.74	73.8	77.3	„	0.0		+	13	12	1.20
Nov. 20th-Midnight	.966	.389	73.2	69.6	3.6	67.8	.84	74.0	77.2	NE b E	0.0		+	16	16	1·30
1 a. m.	.959	.383	71.7	66.0	5.7	62.9	.75	71.8	76.7	„	0.0		+	4		6.00
2 „	.958	.340	72.3	67.5	4.8	65.0	.79	72.3	76.6	NE	0.1		+	12	12	2.45
3 „	.958	.356	72.2	67.0	5.2	64.2	.77	72.2	76.5	ENE	0.2		+	Out of Sc.	40	1·00
4 „	.964	.421	70.8	64.7	6.1	61.1	.73	71.2	76.3	„	0.2		+	6		7·27
5 „	.973	.438	70.2	64.2	6.0	60.6	.73	71.0	76.0	E	0.1		+	10	8	1·30
6 „	.989	.421	70.6	65.4	5.2	62.5	.77	71.4	76.0	„	0.2		+	8	6	2.00
7 „	30.010	.431	71.4	66.0	5.4	63.0	.76	72.0	75.8	„	0.2	None.	+	6		6·00
8 „	.035	.513	73.1	64.8	8.3	59.9	.65	73.4	75.9	„	0.2		+	3		Above 10m.
9 „	.049	.542	75.6	65.2	10.4	59.0	.58	75.5	76.2	„	0.3		+	2		Above 10m.
10 „	.037	.497	77.8	67.0	10.8	60.9	.58	77.3	76.6	„	0.1		+	2		Above 10m.
11 „	.017	.467	80.5	68.2	12.3	61.5	.54	80.4	77.0	„	0.2		+	1		Above 10m.

Amount of Clouds 0–8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤≤ cirro-cumuli; ⌒ cumuli; ⌣ cirro-strati; ⌒⌒ cumulo-strati; and ≤⌒ nimbi.	
0	L	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°0 and 82°5.
0	C	" "	
0	C	" "	
0	C	" "	
0	C	A few ≤ along E hor.	
0	H	" "	
3	H	≤ scattered about; mist around hor.	
6	H	" " "	
6	H	" " "	
7	H	≤ scattered throughout; mist along E hor.	
7	H	" " " "	
7	C	" " " "	
5	C	≤ scattered about.	
4	N	Clouded as before.	
6	N	" "	
7	N	" "	
7	N	" "	
7	H	" "	
6	H	" "	
0	H	Clear, except in hor.	
0	H	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°0 and 82°5.
0	C	Clear; dew falling.	
0	C	" "	
0	C	A few ≤ along E hor.; dew falling.	
0	C	" " "	
0	H	" " "	
7	H	≤ scattered throughout; mist around hor.	
7	H	" " " "	
7	H	" " " "	
3	L	≤ scattered about; mist along W hor.	
5	L	" " "	
4	L	≤ scattered about hor. from NE to SW.	
5	L	≤ scattered about.	
6	N	" "	
7	N	≤ scattered throughout; a solar-halo.	
5	N	≤ scattered about.	
3	N	" "	
3	H	" "	
2	H	" "	
0	H	Clear, except in hor.	
0	H	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 80°0 and 82°5. 20th November was almost a clear day.
0	G	"	
0	G	"	
0	G	"	
0	G	"	
0	H	"	
0	H	≤ scattered along E hor., and in zth.; mist along E hor.	
0	H	≤ and mist along E hor.	
0	H	" " "	
0	L	" " "	
0	L	Light mist in NW and N hor.	
0	L	Clear.	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-Point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Nov. 20th—Noon.	29.997	29.531	82°2	65°6	16°6	55°2	0.42	82°8	77°5	E	0.1		+	1		Above 10m.
1 p. m.	.947	.511	84.2	66.0	18.2	54.5	.38	84.0	78.0	NE	0.1		+	1		Above 10m.
2 „	.921	.500	85.5	66.0	19.5	53.4	.36	84.2	78.5	„	0.1		+	1		Above 10m.
3 „	.907	.332	86.5	70.9	15.6	62.8	.47	84.4	78.6	N b E	0.1		+	1		Above 10m.
4 „	.906	.273	83.6	71.6	12.0	65.7	.57	82.1	78.9	NNW	0.2		+	3		Above 10m.
5 „	.917	.296	80.2	70.2	10.0	65.2	.62	79.5	78.5	„	0.3		+	2		Above 10m.
6 „	.942	.309	77.8	69.8	8.0	65.7	.68	77.8	78.2	N b W	0.3	None.	+	4		1.00
7 „	.963	.302	77.2	70.4	6.8	67.1	.72	77.2	78.0	„	0.5		+	2		2.30
8 „	.972	.271	76.8	71.4	5.4	68.9	.78	77.0	78.0	N	0.3		+	9	9	0.05
9 „	.973	.320	74.8	69.4	5.4	66.6	.77	74.8	77.7	„	0.0		+	11	10	0.10
10 „	.972	.348	73.2	68.0	5.2	65.3	.77	73.7	77.4	„	0.0		+	Out of Sc.	28	0.08
11 „	.959	.368	71.4	66.4	5.0	63.6	.78	72.0	76.9	„	0.0		+	12	12	0.25
Nov. 21st—Midnight	.949	.363	71.6	66.3	5.3	63.4	.77	72.8	76.7	N	0.0		+	2		Above 10m.
1 a. m.	.935	.342	71.6	66.5	5.1	63.8	.78	72.2	76.5	NE b N	0.0		+	7	5	0.15
2 „	.918	.311	71.7	67.0	4.7	64.5	.79	72.4	76.5	„	0.1		+	10	9	0.10
3 „	.915	.339	71.6	66.0	5.6	62.9	.75	72.2	76.3	NE b E	0.2		+	9	7	0.07
4 „	.923	.387	70.7	64.4	6.3	60.7	.72	71.3	76.1	ENE	0.3		+	5		1.30
5 „	.934	.433	70.0	63.0	7.0	58.7	.69	70.8	75.6	„	0.2		+	2		Above 10m.
6 „	.966	.453	70.2	63.5	6.7	59.3	.70	70.8	75.5	E b N	0.3		+	2		4.00
7 „	.995	.512	70.9	62.7	8.2	57.6	.64	71.5	75.3	E	0.2		+	2		Above 10m.
8 „	30.024	.547	73.6	63.5	10.1	57.2	.59	74.0	75.5	„	0.2		+	3		Above 10m.
9 „	.033	.559	76.0	64.3	11.7	57.0	.54	75.7	76.0	„	0.4		+	1		Above 10m.
10 „	.016	.522	78.0	65.6	12.4	58.4	.52	77.7	76.4	„	0.2		+	2		Above 10m.
11 „	29.994	.495	80.4	66.6	13.8	58.6	.49	80.0	76.9	„	0.1		+	2		Above 10m.
Noon.	.960	.555	82.4	64.4	18.0	52.4	.38	82.2	77.3	NE	0.2	None.	+	1		Above 10m.
1 p. m.	.927	.527	84.0	64.8	19.2	52.0	.35	83.5	77.7	NE b N	0.1		+	2		Above 10m.
2 „	.905	.514	84.4	65.0	19.4	51.2	.35	83.8	78.0	„	0.0		+	2		Above 10m.
3 „	.889	.489	85.4	65.3	20.1	52.0	.33	84.1	78.4	NNE	0.0		+	2		Above 10m.
4 „	.881	.330	84.6	69.6	15.0	61.5	.48	83.0	78.5	NNW	0.1		+	2		Above 10m.
5 „	.891	.247	80.6	71.0	9.6	66.2	.63	80.0	78.4	„	0.2		+	3		Above 10m.
6 „	.908	.322	78.1	68.5	9.6	63.4	.62	78.1	78.0	„	0.4		+	3		Above 10m.
7 „	.931	.340	77.4	68.4	9.0	63.6	.64	77.2	77.9	„	0.4					
8 „	.933	.347	76.6	68.0	8.6	63.4	.65	76.7	77.6	N b W	0.3					
9 „	.935	.351	75.3	67.5	7.8	63.3	.68	75.2	77.5	N	0.3		+	4		1.00
10 „	.928	.396	72.2	64.8	7.4	60.5	.68	72.6	77.0	N b E	0.2		+	Out of Sc.	29	0.07
11 „	.912	.295	71.4	67.2	4.2	65.0	.81	72.5	76.6	NNE	0.2		+	10	8	0.30
Nov. 23rd—Midnight	.902	.263	70.0	67.4	2.6	66.0	.88	70.8	75.7	N b W	0.1		+	Out of Sc.	22	0.15
1 a. m.	.896	.306	70.6	66.1	4.5	63.6	.80	71.2	75.6	N	0.0		+	Out of Sc.	24	0.18
2 „	.891	.295	69.8	66.0	3.8	63.9	.83	70.4	75.5	„	0.0		+	Out of Sc.	24	0.15
3 „	.891	.290	70.2	66.3	3.9	64.2	.83	70.5	75.3	NE b E	0.1		+	Out of Sc.	24	0.12
4 „	.896	.327	69.4	65.0	4.4	62.5	.80	70.2	75.1	„	0.1		+	20	20	0.14
5 „	.914	.393	69.0	63.3	5.7	59.9	.74	69.7	74.9	ENE	0.2		+	10	9	0.45
6 „	.941	.420	69.0	63.3	5.7	59.9	.74	69.7	74.8	„	0.2		+	7	5	1.00
7 „	.959	.473	69.8	62.4	7.4	57.8	.67	70.4	74.6	„	0.1		+	5		3.00
8 „	.976	.493	72.8	63.4	9.4	57.6	.61	73.0	74.9	E b N	0.2		+	10	6	3.05
9 „	.993	.480	75.6	65.4	10.2	59.4	.59	75.6	75.3	E	0.2		+	5		Above 10m.
10 „	.974	.407	77.8	67.8	10.0	62.4	.61	77.6	75.7	„	0.4		+	3		Above 10m.
11 „	.954	.514	81.0	65.0	16.0	54.9	.43	80.4	76.4	„	0.4		+	2		Above 10m.
Noon.	.917	.458	81.6	65.8	15.8	56.1	.44	80.8	76.7	„	0.3		+	3		Above 10m.
1 p. m.	.884	.464	82.8	65.0	17.8	53.4	.38	82.2	77.0	E b N	0.0	None.	+	3		Above 10m.
2 „	.866	.441	83.8	65.5	18.3	53.8	.38	82.9	77.5	NE b N	0.1		+	3		Above 10m.
3 „	.856	.283	84.5	70.2	14.3	62.7	.50	82.6	77.7	NNW	0.1		+	3		Above 10m.
4 „	.855	.281	82.2	69.5	12.7	62.8	.53	81.0	77.8	NW	0.4		+	4		Above 10m.
5 „	.863	.263	78.4	69.0	9.4	64.1	.63	78.0	77.5	NNW	0.5		+	4		Above 10m.
6 „	.873	.287	76.6	68.0	8.6	63.4	.65	76.5	77.3	„	0.6		+	2		Above 10m.
7 „	.892	.285	76.2	68.5	7.7	64.5	.68	76.2	77.1	„	0.8		+	2		Above 10m.
8 „	.906	.276	75.6	69.0	6.6	65.6	.73	75.5	77.0	N b W	0.3		+	5		0.15
9 „	.920	.377	73.2	65.5	7.7	61.1	.67	73.5	76.6	N	0.0		+	5		Above 10m.
10 „	.932	.396	71.8	64.8	7.0	60.7	.70	72.8	76.3	N b E	0.0		+	7	6	Above 10m.
11 „	.924	.366	70.4	65.0	5.4	61.9	.76	71.4	75.9	„	0.0		+	8	8	3.00

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩≀ cumuli; ⌣≀ cirro-strati; ∩≀ cumulo-strati; and ⌣≀ nimbi.	
0	L	Clear.	
0	C	A few ≀ in E and SE hor.	
0	C	" " "	
0	C	" " "	
0	C	A few ≀ in SE hor.	
0	H	A few ≀ in E and SE hor.	
0	H	" " "	
0	H	Clear.	
0	H	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 79°7 and 82°3. At 2 P. M. the Temperature of calculated Dew-point was 51°2, the least during the month. Daily Range of Barometer was 0.152, the greatest during the month. 21st November may be considered as almost a clear day.
0	H	"	
0	H	"	
0	H	"	
0	H	"	
0	G	A few ≀ along E hor.	
0	G	A few ≀ in hor. from NE to S; light mist in hor.	
0	G	" " " " "	
0	G	" " " " "	
0	L	A few ≀ above E and SE hor.	
0	L	" " "	
0	L	A few ≀ along E hor.	
0	L	" "	
0	C	A few ≀ in E, SE, and S hor.	
0	C	" " "	
0	C	" " "	
0	C	" " "	
0	C	" " "	
0	C	A few ≀ in SE above hor.	
0	C	Clear.	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	L	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 79°3 and 82°4. The Temperature of Evaporation at 7 A. M. was 62°4, the least in the month; being about 5°0 less than the Normal Mean. 23rd November was the twenty-eighth cloudless day from the beginning of the year.
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	H	" "	
0	H	Mist around hor.	
0	H	Mist in W; fog along E hor.	
0	H	" " "	
0	L	Light mist in hor.	
0	L	" "	
0	L	Clear.	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	"	
0	L	"	
0	L	"	
0	L	"	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-Point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Nov.24th-Midnight	29.913	29.315	70°8	66°4	4°4	64°0	0.80	71°4	75°7	N b E	0.0		+	Out of Sc.	25	0.10
1 a. m.	.909	.303	71.8	67.0	4.8	64.4	.79	72.2	75.6	NE b E	0.2		+	9	7	0.32
2 „	.895	.357	71.3	64.7	6.6	60.8	.71	72.0	75.6	„	0.1		+	4		Above 10m.
3 „	.892	.344	70.4	64.7	5.7	61.4	.74	71.3	75.4	„	0.1		+	1		2.20
4 „	.898	.342	70.5	65.0	5.5	61.8	.76	71.2	75.4	ENE	0.0		+	6	3	1.15
5 „	.909	.314	70.5	66.2	4.3	63.9	.81	71.0	75.1	„	0.1		+	6	3	0.20
6 „	.936	.411	69.4	63.6	5.8	60.1	.74	69.8	75.0	„	0.1		+	4		Above 10m.
7 „	.972	.441	70.0	64.0	6.0	60.4	.73	71.0	74.8	„	0.1		+	7	4	1.00
8 „	.985	.470	72.6	64.4	8.2	59.5	.65	73.2	75.0	„	0.1		+	9	7	1.05
9 „	30.003	.469	73.7	65.4	8.3	60.6	.65	74.8	75.3	„	0.2		+	2		Above 10m.
10 „	29.992	.458	76.6	66.4	10.2	60.6	.60	76.0	75.7	„	0.2		+	3		Above 10m.
11 „	.973	.480	79.2	66.0	13.2	58.2	.50	79.2	76.1	„	0.1		+	2		Above 10m.
Noon.	.941	.480	82.0	66.0	16.0	56.2	.43	81.9	76.7	NE	0.1		+	1		Above 10m.
1 p. m.	.905	.454	84.0	66.4	17.6	55.5	.40	83.0	77.2	„	0.0	None.	+	2		Above 10m.
2 „	.891	.337	85.5	70.0	15.5	61.7	.47	83.7	77.6	NNW	0.1		+	6		Above 10m.
3 „	.884	.278	84.8	71.0	13.0	64.4	.53	82.3	77.6	„	0.3		+	4		Above 10m.
4 „	.887	.249	82.5	71.4	11.1	66.0	.59	81.2	77.8	NW b N	0.3		+	8	6	Above 10m.
5 „	.898	.248	79.3	70.8	8.5	66.6	.67	79.0	77.7	NNW	0.3		+	10	8	1.30
6 „	.915	.304	77.4	69.0	8.4	64.7	.66	77.4	77.5	„	0.2		+	7	5	1.25
7 „	.940	.336	76.8	68.6	8.2	64.3	.67	76.9	77.3	„	0.1		+	3		4.00
8 „	.948	.288	76.0	70.0	6.0	67.0	.75	75.9	77.2	„	0.1		+	12	10	0.03
9 „	.954	.332	73.4	68.0	5.4	65.2	.77	73.8	76.8	„	0.0		+	Out of Sc.	50	0.05
10 „	.952	.378	71.8	66.0	5.8	62.8	.75	72.6	76.4	„	0.0		+	20	20	1.20
11 „	.941	.327	71.2	67.0	4.2	64.8	.81	72.0	76.0	„	0.0		+	10	8	1.30
Nov.25th-Midnight	.928	.334	70.6	66.2	4.4	63.8	.80	71.5	75.9	NNW	0.0		+	Out of Sc.	22	1.00
1 a. m.	.915	.341	68.9	65.0	3.9	62.8	.82	70.1	75.5	„	0.0		+	Out of Sc.	34	0.46
2 „	.905	.300	69.0	66.0	3.0	64.4	.86	70.1	75.3	„	0.0		+	10	7	0.55
3 „	.901	.333	68.6	64.7	3.9	62.5	.82	69.3	75.1	„	0.0		+	Out of Sc.	33	0.50
4 „	.903	.317	69.6	65.6	4.0	63.4	.82	70.1	75.0	NE b E	0.0		+	16	16	0.43
5 „	.907	.315	68.4	65.4	3.0	63.7	.86	69.0	74.7	„	0.0		+	Out of Sc.	27	0.15
6 „	.928	.342	67.8	65.0	2.8	63.4	.87	68.9	74.5	„	0.1		+	Out of Sc.	40	0.07
7 „	.956	.385	69.2	65.0	4.2	62.6	.81	70.2	74.5	ENE	0.1		+	Out of Sc.	38	0.10
8 „	.977	.410	71.9	65.8	6.1	62.4	.73	72.2	74.7	„	0.1		+	Out of Sc.	26	0.50
9 „	.989	.394	74.6	67.6	7.0	63.9	.71	74.2	75.1	„	0.2		+	Out of Sc.	22	0.45
10 „	.981	.397	76.8	68.0	8.8	63.3	.65	76.7	75.5	„	0.1		+	10	8	4.00
11 „	.962	.330	79.2	70.2	9.0	65.7	.65	78.4	76.0	NNE	0.1		+	15	13	1.20
Noon.	.921	.337	80.4	69.2	11.2	63.3	.58	79.4	76.4	N b W	0.1	None.	+	4		Above 10m.
1 p. m.	.890	.300	80.8	69.5	11.3	63.6	.58	80.0	76.5	NNW	0.3		+	3		4.00
2 „	.878	.242	81.4	71.0	10.4	65.9	.61	80.3	76.9	„	0.3		+	4		Above 10m.
3 „	.870	.205	82.0	72.0	10.0	67.2	.62	81.0	77.2	NW b N	0.3		+	4		1.00
4 „	.866	.170	81.5	72.0	9.5	68.6	.64	80.4	77.5	„	0.2		+	7	5	1.05
5 „	.870	.172	79.0	72.0	7.0	68.7	.72	78.8	77.5	„	0.2		+	12	10	0.05
6 „	.881	.187	77.4	71.4	6.0	68.6	.75	77.3	77.2	NNW	0.1		+	Out of Sc.	20	0.30
7 „	.889	.186	76.6	71.4	5.2	69.0	.78	76.8	77.0	„	0.1		+	11	10	0.50
8 „	.891	.178	76.0	71.5	4.5	69.4	.81	76.2	77.0	N b W	0.1		+	Out of Sc.	20	1.00
9 „	.892	.200	75.0	70.6	4.4	68.5	.81	75.4	77.0	N	0.0		+	16	15	0.08
10 „	.890	.253	73.2	68.4	4.8	65.9	.79	73.8	76.5	„	0.1		+	17	15	0.08
11 „	.878	.249	72.2	67.8	4.4	65.5	.81	73.2	76.3	„	0.1		+	10	9	0.20
Nov.26th-Midnight	.860	.241	71.2	67.2	4.0	65.1	.82	72.0	76.0	N	0.0		+	Out of Sc.	25	0.10
1 a. m.	.847	.205	70.0	67.5	2.5	66.2	.88	71.3	75.7	„	0.0		+	Out of Sc.	20	0.30
2 „	.833	.175	69.8	67.9	1.9	66.9	.91	70.9	75.5	„	0.0		+	5		0.12
3 „	.826	.221	69.0	66.0	3.0	64.4	.86	70.2	75.2	„	0.0		+	6	4	1.15
4 „	.834	.194	68.7	67.0	1.7	66.1	.92	70.2	75.0	„	0.0		+	8	7	0.20
5 „	.842	.239	69.2	66.0	3.2	64.3	.85	70.5	75.0	NE	0.1		+	8	6	0.30
6 „	.862	.276	67.8	65.0	2.8	63.4	.87	69.2	74.6	„	0.1	None.	+	10	9	0.25
7 „	.888	.285	69.2	66.0	3.2	64.3	.85	70.8	74.5	„	0.1		+	10	10	0.30
8 „	.910	.294	71.8	67.3	4.5	64.9	.80	72.5	74.7	NE b E	0.1		+	15	13	0.20
9 „	.919	.291	74.0	68.4	5.6	65.5	.76	74.4	75.1	„	0.1		+	1		Above 10m.
10 „	.906	.300	75.1	68.1	7.0	64.4	.71	75.2	75.4	„	0.1		+	8	8	0.40
11 „	.885	.272	76.2	68.7	7.5	64.8	.69	76.2	75.6	„	0.1		+	8	8	0.50

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀ cirro-cumuli; ≀ cumuli; ≀ cirro-strati; ≀ cumulo-strati; and ≀ nimbi.	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 79°2 and 82°5.
0	C	Clear; dew falling.	
0	C	" "	
0	C	" "	
0	C	" "	
0	H	" "	
0	H	Mist around hor.	
0	H	" "	
0	H	Mist along W; fog along E hor.	
0	L	Light mist around hor.	
0	L	" "	
0	L	Clear.	
0	L	A few ≀ along SW and W hor.	
0	C	≀ scattered in hor. from SW to W.	
0	C	A few ≀ in SE, S, and SW hor.	
0	C	Clear.	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 79°1 and 82°4. 25th November was the twenty-ninth cloudless day from the beginning of the year.
0	C	Clear; dew falling.	
0	C	" "	
0	C	" "	
0	C	" "	
0	H	" "	
0	H	Mist around hor.	
0	H	" "	
0	H	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	"	
0	L	"	
0	L	"	
0	L	"	
0	L	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 79°0 and 82°4.
0	C	Clear; dew falling.	
0	C	" "	
0	C	" "	
0	C	" "	
0	H	" "	
0	H	Mist around hor.	
0	H	≀ scattered in hor. from SE to NW; mist around hor.	
0	H	≀ in hor. from SW to N; mist around hor.	
0	L	Mist around hor.	
0	L	" "	
0	L	Clear.	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 Inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time after which the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Nov. 26th-Noon.	29.851	29.309	78°2	67°2	11°0	61°0	0.57	77°8	75°9	NE b E	0.2		+	2		Above 10m.
1 p. m.	.826	.173	79.8	71.0	8.8	66.7	.67	78.8	76.3	N b W	0.1		+	11	11	2.05
2 „	.802	.126	81.0	72.0	9.0	67.8	.66	80.0	76.6	NNW	0.1		+	15	13	3.40
3 „	.800	.158	80.8	71.0	9.8	66.2	.63	80.0	76.9	„	0.1		+	2		Above 10m.
4 „	.802	.141	80.8	71.5	9.3	67.1	.64	80.0	77.0	„	0.0		+	2		Above 10m.
5 „	.809	.145	78.2	70.8	7.4	67.2	.70	77.9	77.0	„	0.1		+	2		Above 10m.
6 „	.815	.191	76.2	69.0	7.2	65.3	.70	76.2	76.7	„	0.2		+	2		Above 10m.
7 „	.832	.153	75.9	70.5	5.4	67.9	.77	76.1	76.6	„	0.1	None.	+	12	10	0.50
8 „	.846	.160	75.2	70.5	4.7	68.2	.80	75.5	76.5	„	0.1		+	14	13	0.40
9 „	.850	.168	74.0	70.0	4.0	68.0	.83	74.4	76.3	„	0.0		+	Out of Sc.	45	0.10
10 „	.850	.166	72.6	69.6	3.0	68.1	.87	73.0	76.1	„	0.0		+	Out of Sc.	27	0.20
11 „	.839	.204	70.4	67.4	3.0	65.8	.86	71.4	75.6	„	0.0		+	Out of Sc.	25	0.20
Nov. 27th-Midnight	.833	.170	70.2	68.2	2.0	67.3	.91	71.2	75.4	NNW	0.1		+	14	13	0.10
1 a. m.	.826	.171	70.4	68.0	2.4	66.8	.89	71.0	75.3	E b N	0.1		+	4		1.30
2 „	.819	.160	70.0	68.0	2.0	67.0	.91	71.0	75.2	„	0.1		+	7	6	0.30
3 „	.828	.173	69.2	67.0	2.2	66.8	.90	70.2	75.0	„	0.0		+	9	7	1.00
4 „	.834	.241	68.0	65.3	2.7	63.8	.87	69.1	74.6	„	0.0		+	2		2.10
5 „	.847	.266	68.3	65.0	3.3	63.1	.85	69.0	74.5	„	0.0		+	4		2.50
6 „	.865	.257	67.6	65.6	2.0	64.5	.91	69.4	74.1	„	0.1		+	10	8	1.00
7 „	.898	.239	70.0	68.0	2.0	67.0	.91	71.0	74.3	„	0.1		+	12	12	0.50
8 „	.919	.291	71.0	67.4	3.6	65.5	.84	71.4	74.4	„	0.1		+	10	9	0.55
9 „	.933	.307	73.0	68.0	5.0	65.4	.78	73.0	74.7	„	0.1		+	1		Above 10m.
10 „	.929	.298	75.0	68.8	6.2	65.7	.74	75.0	75.1	„	0.2		+	6	6	2.30
11 „	.915	.269	76.6	69.8	6.8	66.4	.72	76.4	75.4	„	0.0	None.	+	3		1.30
Noon.	.883	.258	78.0	69.6	8.4	65.4	.67	77.4	75.7	NW	0.1					
1 p. m.	.853	.228	79.2	70.0	9.2	65.4	.64	78.5	76.0	„	0.1					
2 „	.841	.180	80.8	71.5	9.3	67.1	.64	80.2	76.5	„	0.1					
3 „	.838	.167	80.8	71.8	9.0	67.5	.66	80.1	76.6	„	0.1					
4 „	.842	.190	80.6	71.2	9.4	66.6	.64	79.6	76.8	„	0.1					
5 „	.856	.178	78.2	71.2	7.0	67.8	.72	78.0	76.8	„	0.2		+	2		Above 10m.
6 „	.868	.171	76.8	71.3	5.5	68.7	.77	76.9	76.6	„	0.2		+	1		Above 10m.
7 „	.893	.191	76.0	71.2	4.8	68.9	.80	76.2	76.5	„	0.2		+	1		Above 10m.
8 „	.911	.203	74.8	71.0	3.8	69.2	.84	75.2	76.5	„	0.1		+	2		Above 10m.
9 „	.918	.224	74.2	70.4	3.8	68.6	.83	74.8	76.3	„	0.0		+	8	6	0.50
10 „	.924	.208	72.8	70.6	2.2	69.6	.90	73.6	76.0	„	0.0		+	Out of Sc.	52	0.08
11 „	.919	.215	72.0	70.0	2.0	69.0	.91	72.8	75.8	„	0.0		+	Out of Sc.	57	0.08
Nov. 28th-Midnight	.912	.217	71.6	69.6	2.0	68.6	.91	72.2	75.6	NW	0.0		+	Out of Sc.	24	0.25
1 a. m.	.907	.230	70.4	68.7	1.7	67.8	.92	71.5	75.4	„	0.0		+	5		1.30
2 „	.899	.223	70.2	68.6	1.6	67.8	.93	71.2	75.3	„	0.0		+	4		4.00
3 „	.901	.224	70.4	68.7	1.7	67.8	.92	71.5	75.2	„	0.0		+	5		Not Observed.
4 „	.901	.264	69.0	67.0	2.0	65.9	.91	70.2	74.9	„	0.0		+	1		
5 „	.912	.271	68.6	67.0	1.6	66.1	.93	70.2	74.6	„	0.0		+	1		
6 „	.937	.301	68.4	66.8	1.6	65.9	.92	69.8	74.5	„	0.0		+	1		
7 „	.952	.281	68.9	68.0	0.9	67.5	.96	70.4	74.4	„	0.0		+	3		
8 „	.976	.279	72.0	69.8	2.2	68.7	.90	72.8	74.7	NW b N	0.1		+	1		
9 „	.991	.309	74.0	70.0	4.0	68.0	.83	74.4	75.0	NNE	0.1					
10 „	.988	.321	76.0	70.2	5.8	67.3	.76	75.4	75.4	N b E	0.2					
11 „	.967	.288	76.8	70.8	6.0	67.9	.75	76.4	75.6	NNE	0.1					
Noon.	.941	.265	78.4	71.2	7.2	67.8	.71	77.8	76.0	NW b N	0.2					
1 p. m.	.911	.247	79.2	71.1	8.1	67.2	.68	78.4	76.2	„	0.1	None.				
2 „	.893	.218	79.8	71.6	8.2	67.7	.68	79.2	76.5	„	0.4					
3 „	.892	.203	80.2	72.1	8.1	68.3	.68	79.7	76.7	NNW	0.4		+	1		
4 „	.897	.210	80.0	72.0	8.0	68.2	.69	79.1	77.0	„	0.2		+	1		
5 „	.902	.172	77.4	72.4	5.0	70.1	.79	77.2	76.7	„	0.2		+	1		
6 „	.923	.192	76.0	72.0	4.0	70.2	.83	76.2	76.5	„	0.2		+	1		
7 „	.942	.199	75.6	72.2	3.4	70.7	.85	75.8	76.5	„	0.2		+	1		
8 „	.960	.210	75.3	72.3	3.0	71.0	.87	75.5	76.5	N	0.1		+	1		
9 „	.971	.209	75.2	72.6	2.6	71.4	.89	75.4	76.5	„	0.1		+	15	13	
10 „	.962	.229	73.2	71.2	2.0	70.2	.91	74.0	76.2	N b W	0.0		+	14	12	Not Observed.
11 „	.959	.245	72.4	70.4	2.0	69.4	.91	72.9	76.0	„	0.0		+	7	6	

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: \i cirri; ∿i cirro-cumuli; ∩i cumuli; _i cirro-strati; ∩i cumulo-strati; and ∿i nimbi.	
0	L	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	"	
0	L	"	
0	L	"	
0	L	Dew falling copiously.	
0	L	Dew falling copiously.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°8 and 82°2. The Temperature of Free Air at 6 A. M. was 67°6, the least during the month.
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	H	" "	
0	H	Mist around hor.	27th November was the thirtieth cloudless day from the beginning of the year.
0	H	" "	
0	H	" "	
0	L	" "	
0	L	" "	
0	L	Clear.	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	"	
0	L	"	
0	L	Clear; dew falling.	
0	L	" "	
0	L	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°8 and 82°1.
0	C	" "	
0	C	" "	
0	C	" "	
0	C	" "	
0	H	" "	
0	H	Mist around hor.	28th November as the thirty-first cloudless day from the beginning of the year.
0	H	" "	
0	H	" "	
0	L	" "	
0	L	" "	
0	L	Clear.	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	"	
0	L	"	
0	L	Clear; dew falling.	
0	L	" "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Readings of			Interval of Time in recovering the original degree of tension after discharge.
													Sign of Electricity + or −	Straws of Volts 1.	Straws of Volts 2.	
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Nov. 29th-Midnight	29.950	29.246	72°0	70°0	2°0	69°0	0.91	72°7	75°9	N b W	0.0		+	Out of Sc.	24	Not Observed.
1 a. m.	.950	.212	71.2	70.5	0.7	70.5	.97	72.1	75.7	„	0.0		+	3		
2 „	.949	.236	71.2	70.0	1.2	69.4	.94	72.1	75.5	N	0.0		+	3		
3 „	.950	.225	70.6	70.0	0.6	69.9	.97	71.9	75.4	„	0.0					
4 „	.952	.227	70.6	70.0	0.6	69.9	.97	71.9	75.3	„	0.0					
5 „	.965	.269	70.2	69.4	0.8	69.0	.96	71.0	75.0	„	0.0					
6 „	.995	.339	68.8	67.5	1.3	66.8	.94	69.4	74.8	„	0.0		+	14	12	0·10
7 „	30.014	.378	68.5	66.8	1.7	65.9	.92	68.1	74.5	„	0.1		+	1		Above 10m.
8 „	.046	.395	71.9	68.4	3.5	66.6	.84	72.9	74.8	NE	0.1					
9 „	.061	.399	73.8	69.4	4.4	67.1	.81	73.8	75.2	„	0.1					
10 „	.053	.418	75.2	69.0	6.2	65.8	.74	75.2	75.4	„	0.1					
11 „	.034	.439	77.0	68.4	8.6	63.9	.65	76.8	75.7	NE b E	0·1					
Noon.	29.998	.336	79.0	71.0	8.0	67.1	.68	78.4	76.0	„	0.1	None.				
1 p. m.	.970	.325	80.5	71.0	9.5	66.3	.64	79.5	76.4	NNW	0.2					
2 „	.948	.303	80.9	71.1	9.8	66.3	.63	80.1	76.7	„	0.3					
3 „	.936	.292	80.6	71.0	9.6	66.3	.63	80.0	76.9	„	0.3		+	1		Above 10m.
4 „	.936	.292	80.6	71.0	9.6	66.3	.63	79.8	77.0	„	0.4		+	2		3·30
5 „	.942	.281	77.8	70.6	7.2	67.1	.71	77.4	76.9	„	0.4		+	8	8	3·30
6 „	.947	.303	76.2	69.6	6.6	66.3	.73	76.0	76.6	„	0.3		+	7	6	2·00
7 „	.965	.323	75.8	69.4	6.4	66.2	.73	75.6	76.5	„	0.2		+	11	10	2.00
8 „	.983	.326	75.6	69.8	5.8	66.9	.76	75.6	76.4	N	0.3		+	7	7	2·20
9 „	.995	.326	75.2	70.0	5.2	67.4	.78	74.8	76.4	„	0.1		+	Out of Sc.	30	0·20
10 „	.983	.324	73.0	69.0	4.0	67.0	.82	73.6	76.0	„	0.1		+	Out of Sc.	22	0·35
11 „	.967	.367	71.8	66.8	5.0	64.1	.78	72.2	75.8	„	0.1		+	18	16	1.30
Dec. 1st-Midnight	.937	.307	72.1	67.8	4.3	65.6	.81	72.2	75.5	N	0.1		+	2		Above 10m.
1 a. m.	.923	.308	70.4	66.8	3.6	64.9	.84	71.2	75.2	NE b N	0.0		+	5		3·00
2 „	.911	.287	70.2	67.0	3.2	65.3	.85	70.7	75.0	„	0.0					
3 „	.910	.273	70.2	67.4	2.8	65.9	.87	70.7	74.8	„	0.0		+	8	8	Above 10m.
4 „	.917	.299	69.6	66.6	3.0	65.0	.86	70.2	74.6	„	0.0		+	4		Above 10m.
5 „	.933	.306	69.6	66.9	2.7	65.4	.88	70.2	74.5	„	0.0		+	8	6	Above 10m.
6 „	.958	.325	69.4	67.0	2.4	65.7	.89	70.2	74.3	„	0.0		+	6	5	Above 10m.
7 „	.988	.385	69.2	66.0	3.2	64.3	.85	70.2	74.3	„	0.0					
8 „	30.016	.393	71.8	67.5	4.3	65.3	.81	72.2	74.4	NE	0.0		+	13	10	2.40
9 „	.025	.374	74.4	69.2	5.2	66.6	.78	74.3	74.8	„	0.1		+	12	10	1·50
10 „	.027	.387	76.3	69.5	6.8	66.1	.72	76.2	75.2	„	0.1		+	14	14	1.20
11 „	.005	.390	78.6	69.5	9.1	64.9	.64	77.7	75.7	„	0.1		+	Out of Sc.	30	1.00
Noon.	29.976	.321	80.0	71.1	8.9	65.8	.65	78.9	76.0	NE	0.2		+	4		Above 10m.
1 p. m.	.957	.327	80.6	70.6	10.0	65.6	.62	80.0	76.3	N	0.2	None.	+	3		Above 10m.
2 „	.939	.311	82.0	71.3	10.7	65.5	.60	81.0	76.6	„	0.2		+	3		Above 10m.
3 „	.931	.319	81.9	70.5	11.4	64.8	.58	81.0	76.9	NNW	0.2		+	3		Above 10m.
4 „	.928	.307	81.4	70.6	10.8	65.2	.59	80.2	77.0	„	0.3		+	2		Above 10m.
5 „	.937	.273	79.2	71.1	8.1	67.2	.68	78.2	77.0	„	0.3		+	2		Above 10m.
6 „	.951	.243	77.4	71.8	5.6	69.2	.77	77.1	76.8	N	0.3		+	2		Above 10m.
7 „	.967	.262	76.4	71.4	5.0	69.0	.79	76.2	76.6	„	0.3		+	2		Above 10m.
8 „	.980	.276	75.2	71.0	4.2	69.0	.82	75.3	76.5	„	0.2		+	10	10	2.00
9 „	.991	.347	74.4	69.0	5.4	66.3	.77	74.5	76.4	„	0.1		+	3		Above 10m.
10 „	.995	.399	72.7	67.0	5.7	63.9	.75	73.0	76.1	„	0.1		+	Out of Sc.	30	0.50
11 „	.988	.410	72.0	66.2	5.8	63.0	.75	72.4	75.8	„	0.1		+	Out of Sc.	25	1.00
Dec. 2nd-Midnight	.990	29.398	70.2	66.0	4.2	63.7	.81	71.2	75.3	N	0.1		+	Out of Sc.	32	0.30
1 a. m.	.979	.383	70.1	66.1	4.0	63.9	.82	71.0	75.2	„	0.0		+	1		Above 10m.
2 „	.967	.346	69.4	66.6	2.8	65.1	.87	70.0	74.8	„	0.0		+	1		Above 10m.
3 „	.959	.413	68.1	63.8	4.3	61.3	.80	69.2	74.5	„	0.0					
4 „	.966	.365	68.2	65.6	2.6	64.2	.88	69.8	74.2	„	0.0		+	1		Above 10m
5 „	.980	.369	69.0	66.2	2.8	64.7	.87	69.8	74.2	„	0.0	None.	+	1		Above 10m.
6 „	30.002	.479	66.4	62.4	4.0	60.0	.81	67.2	73.8	NNE	0.0		+	3		4.25
7 „	.026	.446	67.2	64.6	2.6	63.1	.88	68.2	73.6	NE	0.0		+	6		1.25
8 „	.054	.429	71.6	67.5	4.1	65.4	.82	72.1	74.0	„	0.0		+	2		Above 10m.
9 „	.067	.451	73.9	68.0	5.9	64.9	.75	74.2	74.5	„	0.1		+	3		Above 10m.
10 „	.066	.505	75.9	67.0	8.9	62.1	.64	75.2	75.0	N	0.1		+	2		Above 10m.
11 „	.047	.453	77.4	68.5	8.9	63.8	.64	76.9	75.3	„	0.1		+	7	5	4.00

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ⌄i cirri; ⌄⌒i cirro-cumuli; ⌒i cumuli; ⌣i cirro-strati; ⌒⌣i cumulo-strati; and ⌄⌣i nimbi.	
0	L	Clear; dew falling copiously.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°7 and 82°1. The range of Temperature of Evaporation was 4°3, the least in the month. 29th November was the thirty-second cloudless day from the beginning of the year.
0	C	" " "	
0	C	" " "	
0	C	" " "	
0	C	" " "	
0	H	" " "	
0	H	A few streaks of ⌄i in E above hor.; mist around hor.	
0	H	Mist along W hor.; fog along E hor.	
0	H	" " " "	
0	L	Mist in hor.	
0	L	" "	
0	L	Clear.	
0	L	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°4 and 82°0. 1st December was the thirty-third cloudless day from the beginning of the year.
0	L	Clear; dew falling.	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	
0	C	Mist along W; fog along E hor.	
0	C	" " " "	
0	H	" " " "	
0	H	" " " "	
0	H	Mist around hor.	
0	H	" "	
0	N	Clear.	
0	N	"	
0	N	"	
0	N	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°3 and 82°0. 2nd December was the thirty-fourth cloudless day from the beginning of the year.
0	N	Clear; dew falling.	
0	N	" "	
0	N	" "	
0	N	" "	
0	C	" "	
0	C	" "	
0	C	Mist along W; fog along E hor.	
0	C	" " " "	
0	H	Mist in hor.	
0	H	" "	
0	H	" "	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Dec. 2nd-Noon.	30.010	29.407	79°3	69°4	9°9	64°3	0.62	78°0	75°6	N b W	0.2		+	3		Above 10m.
1 p.m.	29.984	.349	80.5	70.7	9.8	65.8	.63	79.6	76.0	„	0.2		+	3		Above 10m.
2 „	.961	.311	81.4	71.4	10.0	66.6	.62	80.4	76.3	NNW	0.2					
3 „	.952	.297	81.6	71.6	10.0	66.8	.62	80.4	76.6	„	0.2					
4 „	.953	.306	81.0	71.2	9.8	64.4	.63	80.2	76.7	„	0.3		+	4		Above 10m.
5 „	.963	.325	78.0	70.0	8.0	66.0	.68	77.3	76.5	„	0.3		+	3		Above 10m.
6 „	.975	.317	76.2	70.0	6.2	66.9	.74	76.2	76.4	„	0.3	None.	+	3	None.	5.00
7 „	.989	.324	75.5	70.0	5.5	67.2	.77	75.7	76.2	N b W	0.3		+	3		4.20
8 „	30.007	.356	74.9	69.4	5.5	66.6	.77	75.1	76.2	N	0.2		+	6		
9 „	.013	.404	73.3	67.6	5.7	64.6	.75	73.7	76.0	„	0.1		+	2		Above 10m.
10 „	.013	.432	71.2	66.0	5.2	63.1	.77	71.7	75.5	N b E	0.1		+	8		0.20
11 „	.001	.460	69.9	64.3	5.6	61.0	.75	70.4	75.2	„	0.1		+	9		4.00
Dec. 3rd-Midnight	29.991	.470	69.8	63.6	6.2	59.9	.72	70.3	75.0	N b E	0.1		+	3		Above 10m.
1 a.m.	.976	.434	68.4	63.8	4.6	61.0	.79	69.4	74.5	„	0.0		+	3		Above 10m.
2 „	.968	.447	67.6	62.8	4.8	59.9	.78	68.2	74.2	„	0.0		+	3		Above 10m.
3 „	.962	.443	66.8	62.4	4.4	59.7	.79	68.0	73.9	„	0.0		+	4		Above 10m.
4 „	.966	.410	67.2	63.8	3.4	61.8	.84	68.0	73.7	„	0.0		+	4		2.10
5 „	.986	.446	66.2	62.9	3.3	60.9	.84	67.6	73.5	„	0.0		+	2		Above 10m.
6 „	.998	.440	67.3	63.9	3.4	61.9	.84	67.8	73.4	„	0.0		+	7	6	Above 10m.
7 „	30.022	.438	68.0	65.0	3.0	63.3	.86	69.0	73.3	„	0.0					
8 „	.046	.477	70.9	65.5	5.4	62.5	.76	71.0	73.6	„	0.0		+	16	15	1.10
9 „	.050	.461	73.4	67.0	6.4	63.5	.72	73.4	74.0	NE b N	0.0		+	7	6	Above 10m.
10 „	.044	.512	75.6	66.0	9.6	60.5	.61	75.2	74.5	NE	0.1		+	1		Above 10m.
11 „	.017	.470	77.2	67.0	10.2	61.3	.60	76.2	74.8	„	0.2	None.	+	1		Above 10m.
Noon.	29.983	.434	78.5	67.5	11.0	61.4	.58	77.4	75.2	„	0.2		+	1		Above 10m.
1 p.m.	.946	.362	79.8	69.0	10.8	63.3	.59	78.2	75.5	N b W	0.1		+	1		Above 10m.
2 „	.929	.312	80.6	70.2	10.4	65.0	.61	80.0	75.8	„	0.2		+	1		Above 10m.
3 „	.915	.267	81.6	71.4	10.2	66.5	.62	80.6	76.2	„	0.2		+	1		Above 10m.
4 „	.916	.254	81.0	71.6	9.4	67.1	.64	80.1	76.5	„	0.2		+	1		Above 10m.
5 „	.912	.224	77.9	71.2	6.7	68.3	.73	77.2	76.3	„	0.1		+	1		Above 10m.
6 „	.936	.271	75.9	70.1	5.8	67.2	.76	76.0	76.0	„	0.2		+	1		Above 10m.
7 „	.956	.314	74.8	69.1	5.7	66.2	.76	75.1	75.9	N	0.0		+	1		Above 10m.
8 „	.971	.322	74.2	69.1	5.1	66.5	.78	74.4	75.7	„	0.0		+	2		3.00
9 „	.980	.294	73.6	70.0	3.6	68.2	.84	73.7	75.7	„	0.0		+	2		1.50
10 „	.971	.342	72.2	67.8	4.4	65.5	.81	72.5	75.5	N b E	0.1		+	1		Above 10m.
11 „	.965	.393	70.2	65.4	4.8	62.7	.78	70.9	75.1	„	0.1		+	1		Above 10m.
Dec. 4th-Midnight	.954	.335	70.6	67.0	3.6	65.1	.84	71.0	74.9	NE b N	0.0		+	1		Above 10m.
1 a.m.	.938	.310	69.8	67.0	2.8	65.5	.87	70.4	74.6	„	0.0		+	2		Above 10m.
2 „	.927	.318	68.6	66.0	2.6	64.6	.88	69.8	74.3	„	0.0		+	8	8	0.32
3 „	.926	.324	68.1	65.6	2.5	64.2	.88	68.8	74.0	„	0.0		+	4		1.52
4 „	.928	.342	67.8	65.0	2.8	63.4	.87	68.4	73.8	„	0.0		+	3		2.34
5 „	.942	.309	69.4	67.0	2.4	65.7	.89	70.1	74.0	N	0.0		+	2		0.47
6 „	.975	.366	68.6	66.0	2.6	64.6	.88	69.2	73.7	NE b E	0.0					
7 „	.994	.385	68.6	66.0	2.6	64.6	.88	69.2	73.5	„	0.1					
8 „	30.018	.412	70.7	66.6	4.1	64.4	.82	70.9	73.8	„	0.1					
9 „	.032	.405	72.6	67.9	4.7	65.4	.80	72.7	74.1	„	0.1		+	1		Above 10m.
10 „	.030	.439	74.7	67.5	7.2	63.6	.70	74.7	74.4	„	0.1		+	2		4.00
11 „	.006	.452	76.5	67.0	9.5	61.7	.62	76.0	74.8	ENE	0.1		+	2		Above 10m.
Noon.	29.976	.380	78.7	69.0	9.7	63.9	.62	78.2	75.1	„	0.1	None.	+	1		Above 10m.
1 p.m.	.958	.415	82.0	68.5	13.5	61.1	.51	81.5	75.7	NE b E	0.1		+	1		Above 10m.
2 „	.936	.272	83.1	72.5	10.8	67.2	.60	81.9	76.2	N b W	0.2		+	3		0.12
3 „	.928	.207	83.6	74.0	9.6	69.7	.65	82.2	76.6	NNW	0.2		+	2		Above 10m.
4 „	.935	.208	82.4	73.8	8.6	70.0	.67	81.0	76.7	„	0.2		+	1		Above 10m.
5 „	.954	.225	79.5	73.0	6.5	70.1	.74	78.4	76.7	„	0.1					
6 „	.959	.210	77.7	73.0	4.7	70.9	.81	77.3	76.5	„	0.1		+	2		Above 10m.
7 „	.986	.272	76.6	72.4	4.2	69.4	.82	76.6	76.5	„	0.1					
8 „	30.007	.270	75.8	72.4	3.4	70.4	.85	76.1	76.4	„	0.1		+	2		1.27
9 „	.015	.307	74.2	70.8	3.4	69.2	.85	74.2	76.2	N b W	0.1		+	4		1.00
10 „	.013	.350	72.1	68.8	3.3	67.2	.85	72.8	75.8	„	0.1		+	11	10	0.40
11 „	.001	.357	71.4	68.0	3.4	66.3	.85	72.2	75.5	„	0.1		+	Out of Sc.	30	0.20

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∖ cirri; ∿ cirro-cumuli; ∩ cumuli; ∖ cirro-strati; ∩ cumulo-strati; and ∿ nimbi.	
0	H	Mist in hor.	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°8.
0	N	"	
0	N	"	
0	N	"	
0	N	Clear; dew falling.	3rd December was the thirty-fifth cloudless day from the beginning of the year.
0	C	" "	
0	C	A few streaks of ∖ in E; mist in hor.	
0	C	Mist in hor.	
0	C	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	C	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°8. Daily Range of Barometer was 0.106in. the smallest in the month.
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	C	" "	
0	C	A few streaks of ∖ in E hor.; mist around hor.	4th December was the thirty-sixth cloudless day from the beginning of the year.
0	C	Mist in hor.	
0	C	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	H	Clear; dew falling.	
0	H	" "	
0	H	" "	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Dec. 5th-Midnight	29.985	29.337	71°0	68°0	3°0	66°5	0.86	71°8	75°3	N b W	0.0		+	2		2.00
1 a. m.	.975	.359	70.5	66.8	3.7	64.9	.83	71.2	75.0	„	0.0					
2 „	.963	.373	71.5	66.4	5.1	63.6	.78	72.0	75.0	NE b E	0.0					
3 „	.955	.372	71.0	66.0	5.0	63 2	.78	71.2	74.7	„	0.2					
4 „	.963	.319	71.4	68.0	3.4	66.3	.85	72.0	74.7	„	0.2		+	6		1.23
5 „	.990	.399	71.8	66.5	5.3	63.7	.77	72.1	74.8	ENE	0.3		+	1		Above 10m.
6 „	30.005	.463	71.8	65.0	6.8	61.0	.71	72.1	74.7	„	0.4		+	1		Above 10m.
7 „	.033	.549	71.8	63.1	8.7	57.6	.62	72.2	74.5	„	0.4		+	1		Above 10m.
8 „	.065	.571	74.8	64.5	10.3	58.3	.58	74.9	74.8	E	0.4		+	1		4.35
9 „	.070	.592	77.6	65.0	12.6	57.3	.52	77.2	75.3	„	0.4		+	1		Above 10m.
10 „	.068	.550	81.0	67.4	13.6	59.7	.50	80.8	75.9	„	0.3		+	2		Above 10m.
11 „	.051	.523	83.1	68.4	14.7	60.3	.48	82.2	76.5	„	0.1		+	2		Above 10m.
Noon.	.016	.475	83.7	69.0	14.7	61.0	.48	82.2	76.9	„	0.1	None.	+	3		Above 10m.
1 p. m.	29.992	.517	83.6	67.0	16.6	57.1	.43	82.3	77.2	E b N	0.0		+	4		Above 10m.
2 „	.966	.511	84.8	66.8	18.0	55.8	.39	84.2	77.5	„	0.0		+	2		Above 10m.
3 „	.953	.480	85.0	67.4	17.6	57.0	.40	83.6	77.7	„	0.0		+	1		Above 10m.
4 „	.954	.529	85.2	66.0	19.2	53.8	.36	84.0	77.8	„	0.1		+	2		Above 10m.
5 „	.964	.441	82.4	68.0	14.4	60.0	.48	81.2	77.8	ENE	0.1		+	4		Above 10m.
6 „	.979	.305	80.2	71.7	8.5	67.7	.67	79.2	77.5	N b W	0.1		+	2		Above 10m.
7 „	30.003	.301	78.0	71.8	6.2	68.9	.75	77.4	77.3	„	0.6		+	4		4.50
8 „	.012	.381	76.2	69.2	7.0	65.6	.71	76.1	77.0	„	0.3		+	2		Above 10m.
9 „	.020	.406	75.0	68.3	6.7	64.8	.72	75.2	76.9	„	0.1		+	3		Above 10m.
10 „	.018	.376	74.0	68.8	5.2	66.2	.78	74.2	76.5	N	0.1		+	7	5	1.20
11 „	.011	.401	72.0	67.2	4.8	64.6	.79	72.2	76.2	„	0.1		+	12	10	1.30
Dec. 7th-Midnight	29.974	.460	68.8	63.0	5.8	59.4	.74	70.4	75.4	N b E	0.1		+	1		Above 10m.
1 a. m.	.955	.409	69.2	64.2	5.0	61.3	.77	70.2	75.1	„	0.0		+	2		Above 10m.
2 „	.953	.441	69.0	63.0	6.0	59.3	.73	70.0	74.9	„	0.0		+	6		1.20
3 „	.954	.446	69.4	63.0	6.4	59.2	.71	70.2	74.7	NNE	0.1		+	3		2.30
4 „	.952	.413	69.8	64.2	5.6	60.9	.75	70.2	74.6	E b N	0.1		+	4		2.30
5 „	.975	.406	69.4	65.0	4.4	62.5	.80	70.2	74.4	NE	0.2		+	6	6	0.44
6 „	.998	.429	69.4	65.0	4.4	62.5	.80	70.2	74.4	ENE	0.3		+	5	3	2.30
7 „	30.018	.491	69.2	63.6	5.6	60.2	.75	70.0	74.2	E b N	0.2		+	2		Above 10m.
8 „	.044	.528	71.4	64.0	7.4	59.6	.68	71.4	74.3	„	0.2		+	1		Above 10m.
9 „	.055	.533	73.6	65.0	8.6	59.9	.64	73.4	74.5	„	0·3		+	1		Above 10m.
10 „	.051	.540	75.2	65.2	10.0	59.3	.59	75.0	74.8	ENE	0.2		+	1		Above 10m.
11 „	.032	.543	77.2	65.2	12.0	58.0	.53	76.8	75.2	„	0.2	None.	+	1		Above 10m.
Noon.	29.998	.538	79.3	65.0	14.3	56.1	.47	78.2	75.6	„	0.1		+	1		Above 10m.
1 p. m.	.971	.520	80.8	65.3	15.5	55.5	.44	79.4	76.0	„	0.1		+	1		Above 10m.
2 „	.945	.522	81.4	64.6	16.8	53.6	.41	79.8	76.2	„	0.0					
3 „	.933	.449	82.8	67.0	15.8	57.6	.44	81.2	76.5	NNW	0.2		+	1		Above 10m.
4 „	.939	.390	80.6	68.2	12.4	61.4	.54	79.6	76.6	NW b N	0.2					
5 „	.947	.389	77.4	67.4	10.0	61.9	.61	76.8	76.4	„	0.4					
6 „	.956	.388	75.8	67.2	8.6	62.5	.65	75.9	76.2	NNW	0.4		+	2		Above 10m.
7 „	.972	.427	75.0	66.2	8.8	61.2	.64	75.1	76.0	„	0.3		+	2		Above 10m.
8 „	.985	.432	74.7	67.0	7.7	61.6	.68	74.8	75.9	N b W	0.5		+	3		Above 10m.
9 „	.988	.387	73.8	67.5	6.3	64.2	.73	73.2	75.9	N	0.2		+	10	8	1.00
10 „	.990	.418	72.0	66.0	6.0	62.7	.74	72.2	75.5	N b E	0.1		+	17	15	1.10
11 „	.975	.476	69.6	62.8	6.8	58.0	.70	70.5	75.0	„	0.1		+	5		3.00
Dec. 8th-Midnight	.966	.443	68.0	63.0	5.0	60.0	.77	69.2	74.5	N b E	0.0		+	6		1.30
1 a. m.	.944	.488	68.6	61.0	7.6	56.0	.66	69.8	74.1	„	0.2		+	2		Above 10m.
2 „	.937	.429	69.4	63.0	6.4	59.1	.71	69.8	74.1	NE	0.1		+	7	6	3.00
3 „	.935	.425	69.2	63.0	6.2	59.2	.72	69.6	74.0	NE b E	0.1		+	8	8	3.00
4 „	.943	.446	68.8	62.4	6.4	58.4	.71	69.0	74.0	„	0.2		+	7	7	Above 10m.
5 „	.963	.452	68.4	62.1	6.3	59.3	.71	68.5	73.6	ENE	0.2		+	3		Above 10m.
6 „	.980	.526	67.5	60.5	7.0	55.7	.68	68.0	73.4	„	0.2	None.	+	2		Above 10m.
7 „	30.004	.539	68.1	61.1	7.0	56.5	.68	68.5	73.3	„	0.1		+	2		Above 10m.
8 „	.026	.547	70.4	62.4	8.0	57.3	.64	70.8	73.5	„	0.1		+	2		Above 10m.
9 „	.042	.570	72.6	63.0	9.6	56.9	.60	72.2	73.8	„	0.2		+	2		Above 10m.
10 „	.033	.548	74.2	64.0	10.2	57.7	.58	73.7	74.0	E b N	0.1		+	2		Above 10m.
11 „	.009	.584	75.6	62.5	13.1	53.8	.49	74.9	74.3	„	0.1		+	1		Above 10m.

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≤ cirri; ≤≤ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ∩⌣ cumulo-strati; and ≤∩ nimbi.	
0	H	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°8.
0	N	" "	
0	N	" "	
0	N	Cloudless.	5th December was the thirty-seventh cloudless day from the beginning of the year.
0	N	"	
0	C	"	
0	C	"	
0	C	Mist in hor.	
0	C	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	N	" "	
0	H	" "	
0	H	Clear.	
0	H	"	
0	H	"	
0	H	"	
0	H	"	
0	H	"	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°8. Daily Range of Temperature of Evaporation was 5°4, the least during the month.
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	C	"	
0	C	A few ≤ in E and NW above hor.	
0	C	≤ above hor. from W to NE; haze along E hor.	
0	C	" " " " "	
0	H	" " " " "	
0	H	" " " " "	
0	H	" " " " "	
0	H	" " " " "	
2	L	≤ scattered in W, NW, N, and NE above hor.	
3	L	≤ scattered about zth.	
1	L	≤ scattered here and there.	
0	L	A few ≤ scattered about hor.	
0	L	" " "	
0	C	Clear.	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 78°0 and 81°8.
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	C	"	
0	C	Mist in hor.	8th December was the thirty-eight cloudless day from the beginning of the year.
0	C	" "	
0	C	" "	
0	H	" "	
0	H	" "	
0	H	" "	

Bombay Civil Time. 1857.	Standard Barometer. Corrected to 32° Fahr.	Standard Barometer. Corrected for Moisture.	Thermometers. In the Air.	Thermometers. Wet Bulb Thermometer.	Thermometers. Depression of Wet Bulb below Thermometer in the Air.	Deduced Dew-Point.	Humidity of Air.	Ground Thermometers. Thermometer on the Ground.	Ground Thermometers. Thermometer 6 inches in the Ground.	Wind from Osler's Gauge. Direction.	Wind from Osler's Gauge. Pressure in lbs. per Square Foot.	Rain. By Newman's Gauge.	Electrical Instruments. Sign of Electricity + or −	Electrical Instruments. Readings of Straws of Volta 1.	Electrical Instruments. Readings of Straws of Volta 2.	Electrical Instruments. Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Dec. 8th-Noon.	29.978	29.594	77°8	62°0	15°8	50°8	0.41	76°7	74°7	E b N	0.1		+	1		Above 10m.
1 p. m.	.933	.460	79.2	65.4	13.8	56.9	.49	77.8	75.1	NW b N	0.3		+	2		Above 10m.
2 „	.921	.430	79.4	66.0	13.4	58.1	.50	78.2	75.3	„	0.4		+	2		Above 10m.
3 „	.911	.395	79.4	66.8	12.6	59.6	.52	78.2	75.4	NW b W	0.5		+	1		Above 10m.
4 „	.909	.404	79.2	66.4	12.8	58.9	.52	77.9	75.6	NW	0.4		+	2		Above 10m.
5 „	.922	.399	76.7	66.1	10.6	60.0	.58	76.1	75.5	NW b N	0.4		+	2		Above 10m.
6 „	.937	.379	75.6	66.6	9.0	61.9	.64	75.3	75.5	„	0.4		+	2		Above 10m.
7 „	.958	.387	75.0	67.0	8.0	62.6	.67	75.0	75.5	NNW	0.4		+	3		Above 10m.
8 „	.981	.440	73.7	65.6	8.1	61.0	.66	73.6	75.2	N b W	0.1		+	4		1.05
9 „	.989	.486	71.2	63.5	7.7	58.8	.67	71.5	74.9	„	0.1		+	9	8	3.00
10 „	.986	.476	70.0	63.3	6.7	59.2	.70	70.7	74.5	„	0.1		+	18	15	2.10
11 „	.979	.448	69.4	63.8	5.6	60.4	.75	69.7	74.2	„	0.1		+	16	14	1.10
Dec. 9th-Midnight	.972	.427	70.1	64.5	5.6	61.2	.75	70.6	74.2	NNE	0.1		+	6	5	1.20
1 a. m.	.961	.430	70.0	64.0	6.0	60.4	.73	70.5	74.0	NE b N	0.2		+	8	8	1.00
2 „	.957	.430	69.2	63.6	5.6	60.2	.75	69.5	73.9	NE	0.2		+	4		Above 10m.
3 „	.952	.432	69.4	63.4	6.0	59.8	.73	69.6	73.8	„	0.1		+	3		Above 10m.
4 „	.961	.494	68.8	61.4	7.4	56.6	.67	69.0	73.6	„	0.2		+	2		Above 10m.
5 „	.975	.461	68.4	62.5	5.9	59.4	.73	68.6	73.3	„	0.0		+	3		Above 10m.
6 „	.998	.484	68.4	62.5	5.9	59.4	.73	68.8	73.2	„	0.1		+	2		Above 10m.
7 „	30.020	.553	68.8	61.4	7.4	56.6	.67	69.8	73.2	„	0.1		+	2		Above 10m.
8 „	.052	.588	71.2	62.2	9.0	56.4	.61	71.3	73.4	NE b E	0.1		+	2		Above 10m.
9 „	.063	.574	73.8	64.0	9.8	58.0	.60	73.2	73.7	„	0.1		+	2		Above 10m.
10 „	.060	.590	75.0	63.8	11.2	56.8	.55	74.5	74.0	„	0.1		+	2		Above 10m.
11 „	.037	.616	77.3	63.0	14.3	53.5	.46	76.7	74.4	NNE	0.1		+	1		Above 10m.
Noon.	.002	.661	80.2	61.7	18.5	47.3	.34	79.4	74.9	„	0.1		+	1		Above 10m.
1 p. m.	29.968	.603	82.2	63.0	19.2	49.3	.34	80.8	75.5	NE b N	0.2					
2 „	.946	.464	83.0	67.0	16.0	57.5	.44	81.2	75.7	NW b N	0.1		+	1		Above 10m.
3 „	.940	.468	81.6	66.2	15.4	56.9	.45	80.2	76.0	NW	0.3		+	1		Above 10m.
4 „	.936	.407	80.0	67.4	12.6	60.3	.53	79.7	76.0	NW b N	0.5		+	1		Above 10m.
5 „	.951	.372	77.3	68.0	9.3	63.0	.63	76.6	75.8	„	0.3		+	1		Above 10m.
6 „	.962	.371	75.6	67.8	7.8	63.6	.68	75.7	75.6	„	0.3		+	1		Above 10m.
7 „	.988	.375	75.1	68.3	6.8	64.8	.72	75.1	75.5	„	0.4		+	4		Above 10m.
8 „	.998	.410	74.4	67.3	7.1	63.5	.70	74.4	75.5	N b W	0.4		+	2		Above 10m.
9 „	30.003	.467	72.4	65.0	7.4	60.7	.68	72.2	75.2	„	0.1		+	2		Above 10m.
10 „	29.999	.507	70.8	63.0	7.8	58.1	.66	71.2	74.9	N	0.1		+	2		Above 10m.
11 „	.990	.488	68.3	62.4	5.9	58.7	.73	69.4	74.4	„	0.1		+	2		Above 10m.
Dec. 10th-Midnight	.984	.495	67.8	62.8	5.0	58.0	.77	68.7	74.0	N	0·0		+	4		2.50
1 a. m.	.969	.431	69.4	64.0	5.4	60.8	.75	70.2	74.0	NE b N	0.1		+	1		Above 10m.
2 „	.965	.449	68.6	63.0	5.6	59.6	.74	69.7	73.8	NE	0.1		+	2		Above 10m.
3 „	.958	.465	68.0	62.0	6.0	58.2	.72	68.6	73.6	„	0.1		+	2		Above 10m.
4 „	.962	.469	68.0	62.0	6.0	58.2	.72	68.6	73.4	„	0.1		+	1		Above 10m.
5 „	.978	.489	67.8	61.8	6.0	58.0	.72	68.2	73.2	„	0.1		+	2		Above 10m.
6 „	30.002	.502	67.4	62.0	5.4	58.6	.75	67.8	73.0	„	0.1		+	4		Above 10m.
7 „	.030	.558	67.2	61.0	6.2	56.9	.71	68.2	72.8	„	0.0		+	3		Above 10m.
8 „	.050	.581	70.2	62.0	8.2	56.7	.64	70.3	73.0	NE b E	0.3		+	2		Above 10m.
9 „	.061	.582	72.0	63.0	9.0	57.3	.62	71.5	73.2	„	0·2		+	2		Above 10m.
10 „	.059	.602	73.6	63.6	10.0	55.9	.59	73.4	73.5	„	0.2		+	2		Above 10m.
11 „	.045	.638	75.8	62.0	13.8	52.5	.47	75.4	73.8	„	0.2		+	2		Above 10m.
Noon.	.016	.687	78.4	60.4	18.0	46.3	.34	77.4	74.4	„	0.2		+	1		Above 10m.
1 p. m.	29.983	.662	80.2	60.8	19.4	45.6	.32	79.1	74.8	N b E	0.1		+	1		Above 10m.
2 „	.958	.597	81.2	62.6	18.6	49.0	.35	79.4	75.2	N b W	0.1		+	3		Above 10m.
3 „	.939	.539	81.8	64.0	17.8	52.0	.37	80.0	75.4	„	0.2		+	1		Above 10m.
4 „	.940	.452	81.4	66.6	14.8	57.9	.47	79.6	75.6	NNW	0.4		+	2		Above 10m.
5 „	.954	.490	77.2	64.4	12.8	56.4	.50	76.2	75.5	„	0.3		+	2		Above 10m.
6 „	.956	.439	75.6	65.5	10.1	59.6	.60	75.2	75.2	„	0.3		+	3		Above 10m.
7 „	.972	.431	74.8	66.0	8.8	61.0	.64	74.6	75.1	„	0.6		+	3		Above 10m.
8 „	.989	.442	74.3	66.0	8.3	61.3	.65	74.2	75.0	N b W	0.5		+	3		Above 10m.
9 „	.993	.444	73.0	65.6	7.4	61.4	.69	73.0	75.0	„	0.5		+	4		Above 10m.
10 „	.994	.495	70.2	63.0	7.2	58.6	.68	70.4	74.5	N	0.2		+	14	11	3.00
11 „	.978	.468	69.2	63.0	6.2	59.2	.72	70.2	74.1	„	0.1		+	3		Above 10m.

Amount of Cloud 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: \i cirri; ∨i cirro-cumuli; ∩i cumuli; ⌣i cirro-strati; ∩⌣i cumulo-strati; and ∨⌣i nimbi.	
0	H	Mist in hor.	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°8 and 81°6. 9th December was the thirty-ninth cloudless day from the beginning of the year.
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	C	"	
0	C	Mist in hor.	
0	C	" "	
0	C	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°7 and 81°5. The Temperature of Calculated Dew-point at 1 P. M. was 45°6, the least during the month. 10th December was the fortieth cloudless day from the beginning of the year.
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	C	"	
0	C	Mist in hor.	
0	C	" "	
0	C	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture	In the Air.	Wet-Bulb Thermometer.	Depression of Wet-Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in seconds from the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Dec. 11th-Midnight	29.967	29.489	67°2	61°2	6°0	57°3	0.72	68°2	73°7	N	0.1		+	2		Above 10m.
1 a. m.	.959	.451	68.2	62.6	5.6	59.1	.74	69.4	73.5	NE b E	0.1		+	3		Above 10m.
2 „	.943	.461	67.4	61.4	6.0	57.5	.72	67.6	73.3	„	0.1		+	2		Above 10m.
3 „	.941	.478	67.4	60.8	6.6	56.4	.70	67.6	73.2	„	0.1		+	2		Above 10m.
4 „	.948	.444	67.0	62.0	5.0	58.9	.77	67.4	72.9	„	0·1		+	1		Above 10m.
5 „	.959	.480	66.6	61.0	5.6	57.3	.74	66.6	72.8	„	0·0		+	1		Above 10m.
6 „	.974	.473	64.6	61.0	3.6	58.7	.82	65.2	72.2	„	0·0		+	1		Above 10m.
7 „	.998	.472	65.0	62.0	3.0	60.1	.85	66.2	72.0	„	0·0					
8 „	30.022	.491	70.0	64.0	6.0	60.4	.73	70.2	72.5	ENE	0.0		+	2		Above 10m.
9 „	.037	.525	71.7	64.0	7.7	59.3	.67	71.2	72.9	„	0.0		+	2		Above 10m.
10 „	.030	.529	73.0	64.1	8.9	58.7	.63	72.4	73.1	„	0·0		+	1		Above 10m.
11 „	.014	.586	75.0	62.4	12.6	54.0	.50	74.0	73.4	„	0·0		+	2		Above 10m.
Noon.	29.983	.618	77.1	61.1	16.0	48.9	.40	75.7	73.7	NNE	0·1		+	2		Above 10m.
1 p. m.	.944	.526	78.3	63.3	15.0	53.3	.44	77.2	74.1	NNW	0.2		+	3		Above 10m.
2 „	.919	.472	78.3	64.4	14.4	55.3	.46	77.8	74.3	NW b W	0·4		+	2		Above 10m.
3 „	.907	.448	79.4	65.0	14.4	56.0	.47	78.2	74.5	„	0·4		+	1		Above 10m.
4 „	.910	.485	79.0	63.8	15.2	53.8	.44	77.7	75.0	NW b N	0·4		+	1		Above 10m.
5 „	.932	.438	76.2	65.0	11.2	58.3	.56	75.5	74.8	„	0.3		+	2		Above 10m.
6 „	.943	.430	74.8	65.3	9.5	59.7	.61	74.4	74.6	NNW	0.5		+	3		Above 10m.
7 „	.966	.422	74.0	65.8	8.2	61.2	.65	74.0	74.5	„	0.3		+	2		Above 10m.
8 „	.989	.413	73.7	66.7	7.0	62.9	.70	73.7	74.5	N b W	0.1		+	5		0.37
9 „	.991	.440	72.1	65.4	6.7	61.5	.71	71.8	74.4	„	0.1		+	3		2.00
10 „	.987	.432	70.6	65.0	5.6	61.8	.75	71.0	74.0	„	0.1		+	14	12	1.50
11 „	.976	.430	70.0	64.5	5.5	61.3	.75	70.3	73.8	„	0.1		+	4		3·50
Dec. 12th-Midnight	.963	.466	68.2	62.2	6.0	58.4	.72	68.7	73.5	N b W	0.0		+	7	4	4.00
1 a. m.	.944	.413	68.4	63.4	5.0	60.4	.77	69.0	73.2	„	0.0		+	3		Above 10m.
2 „	.928	.377	68.2	64.0	4.2	61.5	.81	69.0	73.2	„	0.0		+	18	18	Above 10m.
3 „	.920	.384	67.4	63.2	4.2	60.7	.80	68.0	72.9	NNE	0.0		+	14		Above 10m.
4 „	.922	.427	67.8	62.0	5.8	58.3	.73	68.0	72.8	NE b N	0.0		+	3		Above 10m.
5 „	.935	.461	67.9	61.7	6.2	57.0	.71	68.1	72.6	„	0.0		+	2		Above 10m.
6 „	.955	.495	67.0	60.5	6.5	56.1	.70	67.8	72.3	„	0.1		+	1		Above 10m.
7 „	.971	.489	69.0	62.0	7.0	57.5	.69	70.2	72.5	NE	0.2		+	1		Above 10m.
8 „	.995	.505	71.8	63.3	8.5	58.7	.64	72.0	72.9	„	0.2		+	2		Above 10m.
9 „	30.004	.471	74.7	65.7	9.0	60.5	.63	74.2	73.4	„	0.1		+	2		Above 10m.
10 „	.000	.494	77.4	65.8	11.6	59.0	.55	76.4	73.9	NE b E	0.1		+	2		Above 10m.
11 „	29.981	.532	80.2	65.0	15.2	55.4	.45	78.2	74.5	NNE	0.1		+	2		Above 10m.
Noon.	.943	.349	80.7	69.6	11.1	63.8	.58	79.0	74.8	N	0.1		+	2		Above 10m.
1 p. m.	.907	.310	81.6	70.0	11.6	64.0	.57	80.5	75.3	NNW	0.3		+	1		Above 10m.
2 „	.882	.229	81.8	71.6	10.2	66.7	.62	80.6	75.7	NW b N	0.5					
3 „	.871	.201	82.2	72.2	10.0	67.5	.63	81.0	76.1	NNW	0.3					
4 „	.868	.201	81.8	72.0	9.8	67.3	.63	80.8	76.3	„	0.5					
5 „	.882	.200	78.5	71.4	7.1	68.0	.72	78.0	76.2	N b W	0.6		+	1		Above 10m.
6 „	.897	.271	77.2	69.4	7.8	65.4	.68	77.0	76.0	„	0.8		+	2		Above 10m.
7 „	.927	.314	77.2	69.0	8.2	64.8	.67	77.0	76.0	„	0.6		+	3		Above 10m.
8 „	.947	.385	77.0	67.4	9.6	62.1	.62	77.0	76.0	„	0.5		+	2		Above 10m.
9 „	.962	.451	75.8	65.4	10.4	59.3	.58	76.2	75.8	NNE	0.4		+	3		Above 10m.
10 „	.967	.471	76.0	65.0	11.0	58.4	.56	75.7	75.8	„	0.2		+	1		Above 10m.
11 „	.956	.432	75.2	65.6	9.6	60.0	.61	75.0	75.6	„	0.1		+	1		Above 10m.
Dec. 14th-Midnight	.946	.260	74.9	70.4	4.5	68.2	.81	75.2	76.8	NNW	0.1		+	10	8	3·50
1 a. m.	.933	.247	73.6	70.0	3.6	68.2	.84	74.7	76.6	„	0.0					
2 „	.918	.261	73.2	69.0	4.2	66.9	.82	74.2	76.4	„	0.0					
3 „	.906	.247	73.0	69.0	4.0	67.0	.83	73.6	76.2	„	0.0		+	1		Above 10m.
4 „	.913	.218	72.8	70.0	2.8	68.6	.88	73.3	76.0	„	0.0		+	1		Above 10m.
5 „	.922	.213	73.4	70.6	2.8	69.2	.88	73.7	76.0	„	0.0		+	4		Above 10m.
6 „	.946	.230	73.4	70.8	2.6	69.5	.88	74.1	76.0	NE	0.0		+	1		Above 10m.
7 „	.979	.226	74.0	72.0	2.0	71.1	.91	74.6	76.0	„	0.0		+	7	7	1.35
8 „	30.005	.230	75.4	73.0	2.4	72.0	.90	76.2	76.3	„	0.0		+	5	5	2·40
9 „	.024	.279	73.1	73.0	5.1	70.7	.79	77.8	76.6	„	0.0		+	4		Above 10m.
10 „	.022	.291	79.7	73.1	6.6	70.2	.74	79.0	77.0	„	0.0		+	10	10	Above 10m.
11 „	29.999	.286	81.0	73.0	8.0	69.4	.69	80.0	77.3	„	0.0		+	2		Above 10m.

Amount of Clouds 0 to 3.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ⌒≀ cumuli; ⌣≀ cirro-strati; ⌒≀ cumulo-strati; and ⌄≀ nimbi.	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°7 and 81°5.
0	L	,,	
0	L	,,	
0	L	,,	
0	L	,,	
0	C	Clear; dew falling.	
0	C	A few light ≀ in E hem.; mist in hor.	
0	C	,, ,, ,, ,,	
0	C	,, ,, ,, ,,	
2	H	Clouded as before; mist in hor.	
2	H	,, ,, ,,	
2	H	,, ,, ,,	
1	H	Light ≀ scattered about hor. from NE to SW.	
2	L	,, ,, ,, ,, ,,	
1	L	,, ,, ,, ,, ,,	
1	L	,, ,, ,, ,, ,,	
0	L	A few ≀ scattered in E, SW, and SE hor.	
1	C	Light ≀ scattered here and there.	
1	C	,, ,,	
0	C	Clear.	
0	C	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°6 and 81°3. The height of Barometer at 4 P. M. was 29.898, the least during the month; and about 0.057in. lower than the Normal Mean.
0	L	,,	
0	L	,,	
0	L	A few ≀ along E hor.	
0	L	,, ,, ,,	
0	C	,, ,, ,,	
2	C	≀ scattered about; mist in hor.	
4	C	,, ,, ,,	
5	C	,, ,, ,,	
6	H	≀ scattered throughout; mist in hor.	
6	H	,, ,, ,,	
3	H	≀ scattered about; mist in hor.	
3	H	,, ,, ,,	
0	L	A few ≀ along W hor.	
0	L	A few ≀ along W hor., and in SE.	
1	L	≀ scattered about hor. from SW to E.	
1	L	,, ,, ,, ,,	
2	H	,, ,, ,, ,,	
1	H	,, ,, ,, ,,	
0	H	Clear, except in hor.	
0	H	,, ,,	
0	H	,, ,,	
0	H	,, ,,	
2	H	≀ scattered around hor. and about zth.	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°6 and 81°3. The Temperature of Evaporation at 3 P. M. was greatest in the month, being about 7°2 higher than the Normal Mean; and the Temperature of Calculated Dew-point at 4 P. M. was greatest in the month.
0	L	,,	
0	L	,,	
0	L	,,	
0	L	,,	
0	C	,,	
0	C	Mist in hor.	
0	C	,, ,,	
0	C	,, ,,	
0	H	,, ,,	
0	H	,, ,,	
0	H	,, ,,	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			Interval of Time in recovering the same degree of tension after discharge.
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Dec. 14th–Noon.	29.976	29.254	81°9	73°5	8°4	69°8	0.68	81°0	77°5	N	0.1		+	1		Above 10m.
1 p. m.	.945	.144	83.4	76.0	7.4	73.0	.72	82.2	77.9	NNW	0.1					
2 „	.928	.101	83.8	76.8	7.0	74.0	.73	83.0	78.2	„	0.1					
3 „	.928	.071	84.0	77.6	6.4	75.1	.76	83.0	78.4	NW b N	0.2					
4 „	.925	.065	83.0	77.4	5.6	75.2	.78	81.8	78.6	„	0.1					
5 „	.938	.106	80.2	75.9	4.3	74.2	.83	80.0	78.4	„	0.1		+	6	5	1.05
6 „	.961	.127	79.0	75.6	3.4	74.3	.86	79.1	78.3	„	0.0	None.	+	3		Above 10m.
7 „	.988	.169	77.5	74.8	2.7	73.7	.89	77.9	78.0	„	0.0		+	1		Above 10m.
8 „	30.010	.242	76.0	73.0	3.0	71.3	.87	76.3	77.8	„	0.0		+	6	6	0.43
9 „	.015	.219	75.8	73.7	2.1	72.8	.91	76.2	77.6	„	0.0		+	2		1.00
10 „	.014	.268	74.6	72.0	2.6	70.8	.89	75.2	77.4	„	0.0		+	2		1.40
11 „	.006	.288	73.9	71.0	2.9	69.6	.87	74.7	77.1	„	0.0		+	19	17	0.40
Dec. 15th–Midnight	29.995	.197	74.6	73.4	1.2	72.9	.95	75.4	77.0	NW	0.0		+	8	8	4.00
1 a. m.	.967	.202	74.2	72.4	1.8	71.6	.92	74.7	77.0	„	0.0					
2 „	.960	.203	73.6	72.0	1.6	71.2	.93	74.4	76.9	NW b N	0.0					
3 „	.943	.201	73.0	71.4	1.6	70.6	.93	73.8	76.6	„	0.0					
4 „	.942	.200	73.0	71.4	1.6	70.6	.93	73.6	76.5	„	0.0					
5 „	.961	.239	72.2	70.6	1.6	69.8	.93	72.9	76.3	„	0.0					
6 „	.985	.276	72.2	70.2	2.0	69.2	.91	73.1	76.2	„	0.0		+	1		1.13
7 „	30.010	.287	72.8	70.8	2.0	69.8	.91	73.5	76.1	„	0.0		+	5		Above 10m.
8 „	.035	.297	75.4	72.0	3.4	70.5	.85	75.2	76.4	NE b N	0.0		+	3		Above 10m.
9 „	.049	.339	76.6	71.6	5.0	69.3	.79	76.5	76.6	NE b E	0.1		+	5		1.30
10 „	.049	.328	78.6	72.5	6.1	69.7	.75	78.2	77.0	„	0.1		+	5		Above 10m.
11 „	.031	.300	81.0	73.5	7.5	70.2	.71	80.5	77.4	„	0.1		+	3		Above 10m.
Noon.	29.998	.218	83.1	75.4	7.7	72.2	.71	81.4	77.9	NNE	0.1		+	3		Above 10m.
1 p. m.	.970	.207	83.3	75.0	8.3	71.5	.69	82.0	78.1	NNW	0.2	None.	+	2		Above 10m.
2 „	.948	.158	83.4	75.6	7.8	72.6	.70	82.6	78.3	NW b N	0.4					
3 „	.938	.194	83.6	74.6	2.0	70.7	.66	82.8	78.6	NNW	0.4					
4 „	.943	.279	83.4	72.4	11.0	67.2	.60	82.6	78.7	„	0.4		+	2		Above 10m.
5 „	.957	.319	80.2	70.7	9.5	66.0	.63	80.0	78.5	„	0.2		+	1		Above 10m.
6 „	.977	.342	78.3	70.0	8.3	65.8	.67	78.3	78.2	„	0.2		+	2		Above 10m.
7 „	30.001	.348	77.6	70.3	7.3	66.7	.71	77.9	78.0	„	0.2		+	1		Above 10m.
8 „	.026	.349	76.2	69.4	6.8	66.0	.72	76.2	77.5	N b W	0.1		+	2		Above 10m.
9 „	.032	.468	74.2	66.5	7.7	62.2	.68	74.5	77.3	„	0.1		+	3		Above 10m.
10 „	.033	.514	72.8	64.6	8.2	59.7	.65	73.4	77.0	„	0.1		+	3		Above 10m.
11 „	.015	.568	72.2	62.0	10.2	55.3	.57	72.9	76.5	N	0.1		+	2		Above 10m.
Dec. 16th–Midnight	.001	.571	70.4	60.8	9.6	54.1	.58	71.0	76.1	N	0.0		+	2		Above 10m.
1 a. m.	.980	.550	71.0	61.0	10.0	54.1	.57	71.6	75.7	„	0.0		+	2		Above 10m.
2 „	.968	.534	69.0	60.4	8.6	54.4	.62	69.4	75.4	„	0.0		+	1		Above 10m.
3 „	.958	.555	68.2	59.0	9.2	52.2	.59	68.6	74.9	„	0.0		+	2		Above 10m.
4 „	.953	.468	67.6	61.6	6.0	57.7	.72	68.2	74.5	„	0.0		+	2		Above 10m.
5 „	.966	.404	69.4	64.8	4.6	62.1	.79	70.1	74.5	NNE	0.0					
6 „	.987	.454	69.8	64.0	5.8	60.5	.74	70.3	74.5	NE	0.1					
7 „	.009	.460	68.6	64.1	4.5	61.4	.79	68.9	74.3	„	0.0					
8 „	.029	.456	72.3	66.2	6.1	62.7	.73	72.2	74.5	„	0.0					
9 „	.039	.495	74.0	65.8	8.2	61.2	.66	73.6	74.8	„	0.1		+	2		Above 10m.
10 „	.038	.484	76.5	67.0	9.5	61.7	.62	75.9	75.2	„	0.1		+	3		Above 10m.
11 „	.017	.540	77.7	65.0	12.7	57.2	.51	77.2	75.5	N	0.1		+	2		Above 10m.
Noon.	.978	.440	79.8	67.6	12.2	60.8	.54	78.8	75.9	NNW	0.3		+	2		Above 10m.
1 p. m.	.936	.372	81.0	68.8	12.2	62.2	.55	79.8	76.4	„	0.4	None.	+	2		Above 10m.
2 „	.919	.344	81.2	69.2	12.0	62.8	.55	79.8	76.6	„	0.5		+	2		Above 10m.
3 „	.909	.338	81.0	69.0	12.0	62.6	.55	80.0	76.8	„	0.4		+	2		Above 10m.
4 „	.903	.319	79.8	69.0	10.8	63.3	.59	78.8	76.8	„	0.4		+	2		Above 10m.
5 „	.914	.328	76.6	68.0	8.6	63.4	.65	76.2	76.5	„	0.3		+	2		Above 10m.
6 „	.932	.328	75.0	68.0	7.0	64.3	.71	75.1	76.2	„	0.2		+	3		3.14
7 „	.948	.340	74.6	68.0	6.6	64.5	.72	74.7	76.0	N b W	0.2		+	5	4	5.00
8 „	.971	.326	74.3	69.0	5.3	66.3	.77	74.2	76.0	„	0.3		+	7	6	0.27
9 „	.975	.378	72.6	67.0	5.6	64.0	.76	73.0	75.8	N	0.2		+	2		Above 10m.
10 „	.968	.389	71.6	66.1	5.5	63.0	.76	72.0	75.5	„	0.1		+	3		Above 10m.
11 „	.953	.385	70.6	65.4	5.2	62.5	.77	71.3	75.2	„	0.1		+	4		3.50

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩≀ cumuli; ∪≀ cirro-strati; ∩≀ cumulo-strati; and ∪≀ nimbi.	
0	H	A few streaks of ≀ in E hor.	
1	L	≀≀ scattered along E hor.	
1	L	" " "	
1	L	" " "	
0	L	A few patches of ≀≀ in NE and E hor.	
0	C	" " " "	
0	C	Patches of ≀≀ in E hor., otherwise clear.	
0	C	Clear, except in hor.	
0	C	" "	
0	H	Clear; dew falling.	
0	H	" "	
0	H	" "	
0	H	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°7 and 81°4.
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	" "	15th December was the forty-first cloudless day from the beginning of the year.
0	C	Mist in hor.	
0	C	" "	
0	C	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°7 and 81°4. The Reading of Wet Bulb Thermometer at 3 A. M. was 59°0, the least in the month, being about 4°7 lower than the Normal Mean.
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	C	"	
0	C	"	
0	C	Mist in hor.	
0	C	" "	16th December was the forty-second cloudless day from the beginning of the year.
0	H	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-Point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 Inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Dec. 17th-Midnight	29.949	29.427	69°5	63°5	6°0	59°9	0.73	70°5	75°0	N	0.1		+	2		Above 10m.
1 a. m.	.931	.419	69.0	63.0	6.0	59.3	.73	70.1	74.7	„	0.0		+	2		Above 10m.
2 „	.918	.401	68.0	62.8	5.2	59.6	.76	69.0	74.3	„	0.0		+	2		Above 10m.
3 „	.919	.419	66.8	61.8	5.0	58.6	.76	67.5	74.0	„	0.0		+	7	6	3.30
4 „	.921	.337	68.0	65.0	3.0	63.3	.86	68.8	73.9	„	0.1		+	4		Above 10m.
5 „	.935	.366	68.5	64.7	3.8	62.5	.83	68.8	73.7	NE b N	0.0					
6 „	.961	.426	67.8	63.0	4.8	60.6	.78	68.2	73.5	NE b E	0.0					
7 „	.997	.493	67.0	62.0	5.0	58.9	.67	67.4	73.4	„	0.0		+	4		2.00
8 „	30.022	.536	70.0	62.5	7.5	57.8	.67	70.5	73.5	„	0.1		+	3		Above 10m.
9 „	.045	.490	73.0	65.8	7.2	61.8	.69	72.5	73.9	NE	0.1		+	5	5	Above 10m.
10 „	.044	.484	74.2	66.4	7.8	62.0	.67	74.0	74.2	„	0.1		+	7	6	Above 10m.
11 „	.023	.439	76.4	68.0	8.4	63.5	.64	75.2	74.5	„	0.1		+	5	5	Above 10m.
Noon.	29.994	.407	78.0	68.5	9.5	63.4	.63	77.0	75.0	N	0.1		+	1		Above 10m.
1 p. m.	.967	.342	79.2	70.0	9.2	65.4	.64	78.2	75.3	N b W	0.3	None.	+	2		Above 10m.
2 „	.945	.315	80.0	70.4	9.6	65.6	.63	79.0	75.7	NNW	0.4		+	2		Above 10m.
3 „	.940	.345	80.6	69.6	11.0	63.9	.58	79.2	76.0	„	0.4		+	2		Above 10m.
4 „	.944	.278	80.6	71.6	9.0	67.3	.65	79.2	76.2	„	0.3		+	2		Above 10m.
5 „	.967	.287	77.4	71.0	6.4	68.0	.74	77.0	76.1	„	0.3		+	3		Above 10m.
6 „	.990	.292	75.4	70.9	4.5	68.7	.81	75.2	75.8	„	0.2					
7 „	30.005	.314	74.5	70.4	4.1	68.4	.82	74.8	75.7	„	0.1					
8 „	.020	.317	74.0	70.6	3.4	69.0	.85	74.2	75.6	„	0.2		+	1		02.3
9 „	.028	.369	73.0	69.0	4.0	67.0	.82	73.2	75.5	„	0.1		+	1		Above 10m.
10 „	.023	.441	69.7	65.5	4.2	63.2	.81	70.8	75.0	„	0.1					
11 „	.005	.459	68.6	64.0	4.6	61.3	.79	69.7	74.6	„	0.1		+	1		Above 10m.
Dec. 18th-Midnight	29.997	.444	68.0	64.0	4.0	61.6	.81	69.2	74.3	NNW	0.1		+	1		Above 10m.
1 a. m.	.970	.396	68.8	65.0	3.8	62.8	.83	69.7	74.2	„	0.1		+	5		1.30
2 „	.964	.448	67.0	62.4	4.6	59.6	.78	67.3	73.8	N b W	0.1					
3 „	.952	.492	65.2	59.8	5.4	56.1	.74	66.6	73.3	„	0.1					
4 „	.955	.498	65.0	59.6	5.4	55.9	.74	65.8	73.0	„	0.1					
5 „	.968	.519	64.4	59.1	5.3	55.4	.74	65.2	72.5	„	0.0					
6 „	.984	.502	63.7	60.0	3.7	57.5	.82	64.7	72.2	„	0.0		+	2		1.32
7 „	30.006	.476	64.6	62.0	2.6	60.4	.87	66.0	72.0	„	0.0		+	3		4.00
8 „	.034	.473	68.7	64.5	4.2	62.1	.81	68.8	72.5	N	0.0		+	8		0.38
9 „	.042	.524	71.2	64.0	7.2	59.7	.69	71.0	72.9	NE	0.1		+	2		Above 10m.
10 „	.041	.551	73.4	63.9	9.5	58.0	.60	73.2	73.2	NE b E	0.1		+	1		Above 10m.
11 „	.014	.520	76.2	65.0	11.2	58.3	.56	75.4	73.7	„	0.1	None.	+	1	None.	Above 10m.
Noon.	29.986	.525	79.2	65.0	14.2	56.1	.47	77.7	74.2	„	0.1		+	3		Above 10m.
1 p. m.	.949	.391	79.2	68.0	11.2	61.9	.57	77.5	74.6	N	0.1		+	1		Above 10m.
2 „	.930	.373	79.8	68.2	11.6	61.9	.56	78.4	74.9	NNW	0.2		+	1		Above 10m.
3 „	.914	.281	79.8	70.4	9.4	65.7	.64	78.6	75.2	NW b N	0.4					
4 „	.911	.284	79.0	70.0	9.0	65.4	.65	77.7	75.4	NNW	0.4					
5 „	.922	.264	75.9	69.9	6.0	66.9	.75	75.2	75.3	„	0.3					
6 „	.935	.289	74.2	69.0	5.2	66.4	.78	74.2	75.0	„	0.3					
7 „	.954	.337	73.8	68.0	5.8	65.0	.75	74.1	75.0	N b W	0.3					
8 „	.961	.337	73.2	68.0	5.2	65.3	.78	73.5	74.8	„	0.2					
9 „	.966	.385	71.2	66.0	5.2	63.1	.77	71.2	74.5	N b E	0.1					
10 „	.968	.366	70.4	66.4	4.0	64.2	.82	71.0	74.3	N	0.1					
11 „	.959	.365	69.4	65.8	3.6	63.8	.83	70.2	74.3	„	0.1					
Dec. 19th-Midnight	.953	.354	69.0	65.8	3.2	64.1	.85	70.0	74.0	N	0.1					
1 a. m.	.940	.320	68.2	66.2	2.0	65.2	.90	69.4	73.7	„	0.0					
2 „	.929	.306	67.4	66.0	1.4	65.3	.93	68.8	73.4	„	0.0					
3 „	.919	.328	67.4	65.0	2.4	63.7	.89	68.2	73.2	„	0.0					
4 „	.920	.333	66.6	64.6	2.0	63.4	.90	67.0	72.9	„	0.0					
5 „	.933	.346	67.6	65.0	2.6	63.4	.87	68.0	72.8	N b E	0.1	None.			None	
6 „	.955	.393	67.2	64.0	3.2	62.1	.85	67.6	72.6	NE	0.1					
7 „	.974	.383	67.4	65.0	2.4	63.7	.89	68.1	72.5	„	0.1					
8 „	30.000	.454	70.0	64.5	5.5	61.3	.75	70.2	72.7	„	0.1					
9 „	.010	.496	72.7	64.4	8.3	59.4	.65	72.2	73.1	„	0.2					
10 „	.007	.512	74.4	64.4	10.0	58.3	.59	74.0	73.5	„	0.1		+	1		Above 10m.
11 „	29.991	.541	76.8	63.8	13.0	55.5	.50	76.5	73.8	NE b E	0.1		+	1		Above 10m.

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ⌒ cumuli; ⌒≀ cirro-strati; ⌒⌒ cumulo-strati; and ≀⌒ nimbi.	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°8 and 81°4.
0	L	,,	
0	L	,,	
0	L	,,	
0	L	,,	
0	C	,,	
0	C	,,	
0	C	Mist in hor.	
0	C	,, ,,	
0	H	,, ,,	
0	H	,, ,,	
0	H	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	C	,, ,,	
0	C	Clear.	
0	C	,,	
0	C	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°5 and 81°2. The Temperature of Free Air at 6 A.M. was 63°7, the least in the month, being about 4°7 lower than the Normal Mean. 18th December was the forty-fourth cloudless day from the beginning of the year.
0	L	,,	
0	L	,,	
0	L	,,	
0	L	,,	
0	C	,,	
0	C	,,	
0	C	Mist in hor.	
0	C	,, ,,	
0	H	,, ,,	
0	H	,, ,,	
0	H	,, ,,	
0	H	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	C	,, ,,	
0	C	Clear.	
0	C	,,	
0	C	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	H	Clear; dew falling.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°5 and 81°0. 19th December was the forty-fifth cloudless day from the beginning of the year.
0	L	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	C	,, ,,	
0	C	,, ,,	
0	C	Mist in hor.	
0	C	,, ,,	
0	H	,, ,,	
0	H	,, ,,	
0	H	,, ,,	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Dec. 19th–Noon.	29.959	29.508	79°5	64°8	14°7	55°5	0.46	78°0	74°4	NE b E	0.2		+	2		Above 10m.
1 p. m.	.933	.489	81.2	65.2	16.0	55.1	.43	79.7	74.9	NNE	0.1		+	2		Above 10m.
2 „	.902	.299	82.4	70.4	12.0	64.3	.56	80.4	75.3	N b W	0.2		+	1		Above 10m.
3 „	.886	.221	82.0	72.0	10.0	67.2	.62	80.5	75.6	NW b N	0.1		+	1		Above 10m.
4 „	.892	.223	80.7	71.7	9.0	67.4	.65	79.0	75.8	„	0.2		+	1		Above 10m.
5 „	.897	.215	77.8	71.2	6.6	68.0	.73	76.8	75.6	NW	0.1					
6 „	.910	.264	75.4	69.4	6.0	66.4	.75	75.2	75.5	„	0.2	None.			None.	
7 „	.931	.287	74.4	69.0	5.4	66.3	.77	74.5	75.3	NW b N	0.3					
8 „	.950	.350	73.6	67.4	6.2	64.1	.73	73.7	75.1	NNW	0.2					
9 „	.966	.333	72.4	68.0	4.4	65.7	.81	72.8	75.0	„	0.1		+	7		0.50
10 „	.964	.402	70.0	65.0	5.0	62.1	.77	70.6	74.5	„	0.2		+	8		1·00
11 „	.955	.415	69.2	64.0	5.2	60.9	.76	70.2	74.1	„	0.1		+	4		1.20
Dec. 21st-Midnight	.952	.493	68.4	61.0	7.4	56.1	.66	68.9	74.3	N b W	0.1					
1 a. m.	.935	.446	67.8	61.8	6.0	58.0	.72	69.2	73.8	„	0.0					
2 „	.922	.431	68.2	62.0	6.2	58.1	.72	68.6	73.6	„	0.0					
3 „	.919	.341	68.0	64.8	3.2	63.0	.85	68.8	73.4	„	0.0					
4 „	.921	.402	67.2	62.6	4.6	59.7	.78	67.8	73.2	„	0.1					
5 „	.933	.409	66.6	62.5	4.1	60.0	.81	67.2	72.9	„	0.1					
6 „	.951	.372	69.0	65.2	3.8	63.0	.83	69.3	73.0	NNE	0.1					
7 „	.979	.438	69.1	64.0	5.1	61.0	.77	69.5	73.0	NE	0.1					
8 „	.014	.440	71.0	65.7	5.3	62.8	.77	71.2	73.2	NE b E	0.2		+	3		Above 10m.
9 „	.035	.453	73.4	66.8	6.6	63.2	.72	73.4	73.6	ENE	0.1		+	2		Above 10m.
10 „	.030	.445	76.2	67.8	8.4	63.3	.66	75.4	74.1	„	0.2		+	1		Above 10m.
11 „	.013	.379	78.4	70.0	8.4	65.8	.67	77.2	74.6	„	0.1	None.			None.	
Noon.	.982	.366	81.5	70.5	11.0	64.9	.59	80.9	75.2	E b N	0.1					
1 p. m.	.948	.426	83.6	68.4	15.2	59.9	.47	82.3	75.9	„	0.1					
2 „	.927	.410	84.6	68.6	16.0	59.6	.45	82.8	76.2	„	0.0		+	1		Above 10m.
3 „	.914	.208	85.0	74.0	11.0	69.1	.60	83.0	76.6	„	0.0		+	2		Above 10m.
4 „	.908	.104	83.8	76.2	7.6	73.1	.71	81.6	76.8	NNW	0.1		+	5		1.30
5 „	.921	.156	79.6	74.0	5.6	71.6	.78	79.6	76.6	NW b N	0.1					
6 „	.940	.200	77.5	72.7	4.8	70.5	.80	77.1	76.5	„	0.1					
7 „	.959	.260	76.0	71.1	4.9	68.8	.80	76.1	76.2	NNW	0.1					
8 „	.977	.306	75.0	70.0	5.0	67.5	.79	75.0	76.0	„	0.2					
9 „	.995	.405	73.3	67.0	6.3	63.6	.73	73.4	75.8	N b W	0.0		+	1		Above 10m.
10 „	.993	.485	71.0	63.6	7.4	59.1	.68	71.6	75.2	„	0.0		+	1		Above 10m.
11 „	.985	.467	70.6	63.8	6.8	59.7	.70	71.0	75.0	„	0.1		+	1		Above 10m.
Dec. 22nd-Midnight	.975	.409	70.2	65.2	5.0	62.3	.77	70.8	74.8	N b W	0.1		+	1		Above 10m.
1 a. m.	.961	.378	69.6	65.5	4.1	63.2	.81	70.2	74.5	„	0.1		+	4		Above 10m.
2 „	.946	.356	68.6	65.4	3.2	63.6	.85	69.5	74.1	„	0.1		+	5		Above 10m.
3 „	.926	.365	70.1	65.0	5.1	62.1	.77	70.9	74.2	NNE	0·1		+	1		Above 10m.
4 „	.926	.376	69.7	64.5	5.2	61.6	.77	70.2	74.0	„	0.0		+	1		Above 10m.
5 „	.945	.449	69.3	62.6	6.7	58.4	.70	70.2	73.7	„	0.1		+	1		Above 10m.
6 „	.966	.450	68.6	63.0	5.6	59.6	.75	68.9	73.5	„	0.0		+	2		Above 10m.
7 „	.992	.406	69.3	65.5	3.8	63.4	.83	70.1	73.5	„	0.0					
8 „	30.026	.459	71.2	65.9	5.3	62.4	.76	71.2	73.6	„	0.0		+	2		Above 10m.
9 „	.044	.476	73.9	66.5	7.4	62.5	.69	73.9	74.0	„	0.1		+	2		Above 10m.
10 „	.045	.481	75.6	67.0	8.6	62.2	.65	74.9	74.4	NE b N	0.1		+	1		Above 10m.
11 „	.036	.495	78.0	67.1	10.9	61.0	.58	77.7	74.8	„	0.1	None.	+	1	None.	Above 10m.
Noon.	.005	.397	79.2	69.5	9.7	64.5	.62	78.2	75.1	N b W	0.3		+	1		Above 10m.
1 p. m.	29.969	.323	79.8	70.8	9.0	66.4	.65	79.0	75.5	NNW	0.3		+	1		Above 10m.
2 „	.947	.286	80.4	71.4	9.0	67.1	.65	79.4	75.8	NW b N	0.2		+	1		Above 10m.
3 „	.934	.241	80.5	72.3	8.2	68.5	.68	79.2	76.0	„	0.2		+	1		Above 10m.
4 „	.926	.225	80.0	72.4	7.6	68.9	.70	79.0	76.2	„	0.3					
5 „	.939	.227	77.7	72.0	5.7	69.3	.76	77.2	76.0	„	0.2					
6 „	.944	.246	76.1	71.1	5.0	68.7	.79	76.2	75.9	N b W	0.2					
7 „	.957	.251	75.0	71.0	4.0	69.1	.83	75.2	75.8	„	0.3					
8 „	.971	.278	74.6	70.5	4.1	68.5	.82	74.8	75.7	„	0.2					
9 „	.982	.331	73.4	68.9	4.5	66.6	.80	73.7	75.5	„	0.2		+	1		Above 10m.
10 „	.994	.371	71.2	67.3	3.9	65.3	.82	71.6	75.1	„	0.1		+	2		Above 10m.
11 „	.986	.405	69.8	65.5	4.3	63.1	.81	70.0	74.8	„	0.1		+	1		Above 10m.

Amount of Clouds 0 — 8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: cirri; cirro-cumuli; cumuli; cirro-strati; cumulo-strati; and nimbi.	
0	H	Mist in hor.	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	Clear.	
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°1 and 80°7. Daily Range of Wet Bulb Thermometer was 15°2, the largest in the month. 21st December was the forty-sixth cloudless day from the beginning of the year.
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	C	"	
0	C	"	
0	C	Mist in hor.	
0	C	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°0 and 80°7. 22nd December was the forty-seventh cloudless day from the beginning of the year.
0	H	"	
0	H	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	C	Mist in hor.	
0	C	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Dec. 23rd–Midnight	29.975	29.372	69°2	66°0	3°2	64°3	0.85	70°1	74°4	N b W	0.0		+	8	6	3.50
1 a. m.	.956	.403	68.0	64.0	4.0	61.6	.81	68.9	74.0	„	0.0		+	4		4.20
2 „	.939	.460	66.6	61.0	5.6	57.3	.74	67.7	73.8	N	0.0		+	1		Above 10m.
3 „	.937	.380	68.8	64.4	4.4	61.9	.80	69.4	73.6	„	0.0					
4 „	.940	.389	68.2	64.0	4.2	61.5	.81	68.7	73.6	„	0.0		+	1		Above 10m.
5 „	.956	.442	63.8	63.0	5.8	59.4	.74	69.2	73.4	NNE	0.0		+	1		Above 10m.
6 „	.972	.471	68.4	62.4	6.0	58.7	.72	68.7	73.2	NE b N	0.0		+	2		Above 10m.
7 „	.998	.432	68.2	64.5	3.7	62.3	.83	69.2	73.0	NE	0.1		+	3		Above 10m.
8 „	30.018	.478	70.6	64.5	6.1	60.9	.73	71.1	73.2	ENE	0.2		+	1		Above 10m.
9 „	.030	.474	73.2	65.9	7.3	61.8	.69	73.0	73.6	„	0.2		+	1		Above 10m.
10 „	.024	.442	75.5	67.5	8.0	63.2	.67	75.2	74.0	„	0.2		+	1		Above 10m.
11 „	.000	.442	77.4	67.4	10.0	61.9	.60	76.8	74.5	„	0.2		+	1		Above 10m.
Noon.	29.971	.409	80.6	68.6	12.0	62.1	.55	80.4	75.0	„	0.1	None.	+	1		Above 10m.
1 p. m.	.932	.465	83.4	66.7	16.7	56.6	.42	83.0	75.8	NE b E	0.1					
2 „	.908	.256	83.2	72.0	11.2	66.6	.59	81.2	76.3	NW b N	0.2		+	1		Above 10m.
3 „	.900	.228	81.4	72.0	9.4	67.6	.64	80.6	76.3	„	0.3		+	1		Above 10m.
4 „	.898	.237	80.4	71.4	9.0	67.1	.65	79.4	76.3	„	0.5		+	1		Above 10m.
5 „	.903	.256	77.2	70.0	7.2	66.4	.71	76.6	76.0	„	0.5		+	1		Above 10m.
6 „	.918	.262	75.7	69.8	5.9	66.8	.75	75.4	75.9	NNW	0.5		+	2		Above 10m.
7 „	.942	.290	75.2	69.5	5.7	66.6	.76	75.1	75.7	„	0.6		+	2		Above 10m.
8 „	.962	.289	74.8	70.0	4.8	67.6	.79	74.8	75.6	„	0.3		+	3		2.15
9 „	.982	.368	73.5	67.8	5.7	64.8	.76	73.5	75.4	N b W	0.2		+	2		Above 10m.
10 „	.976	.388	71.4	66.3	5.1	63.5	.77	71.2	75.0	N	0.1		+	7	5	3.00
11 „	.963	.408	69.2	64.5	4.7	61.8	.78	69.1	74.5	„	0.1		+	9	6	4.50
Dec. 24th–Midnight	.954	.419	68.8	63.7	5.1	60.6	.77	69.8	74.2	N	0.1		+	2		Above 10m.
1 a. m.	.938	.377	67.8	64.2	3.6	62.1	.83	68.7	73.9	„	0.0		+	5		3.30
2 „	.924	.352	67.4	64.4	3.0	62.7	.86	68.6	73.6	„	0.0		+	4		4.00
3 „	.910	.346	67.0	64.0	3.0	62.2	.86	67.6	73.4	„	0.0		+	8	6	
4 „	.911	.351	66.2	63.6	2.6	62.0	.87	67.4	73.1	„	0.0		+	11	10	
5 „	.933	.357	68.2	64.8	3.4	62.9	.84	68.4	73.0	NE b N	0.0		+	12	11	
6 „	.954	.392	68.0	64.3	3.7	62.1	.83	68.4	73.0	NE	0.1		+	17	14	
7 „	.982	.402	68.4	65.0	3.4	63.1	.84	69.1	72.9	„	0.1		+	13	12	
8 „	30.010	.452	70.6	65.1	5.5	61.9	.76	70.6	73.0	„	0.1		+	Out of Sc.	20	
9 „	.022	.464	72.4	65.7	6.7	61.9	.71	72.2	73.4	„	0.1		+	Out of Sc.	20	
10 „	.019	.463	74.3	66.3	8.0	61.8	.67	74.0	73.8	„	0.1		+	12	10	
11 „	29.999	.484	77.2	66.0	11.2	59.5	.56	76.7	74.3	„	0.1	None.	+	1		Not observed.
Noon.	.970	.488	80.2	66.0	14.2	57.5	.48	79.7	74.8	„	0.1		+	1		
1 p. m.	.945	.469	82.4	66.6	15.8	57.2	.44	81.4	75.4	NE b E	0.1		+	2		
2 „	.928	.258	81.8	70.4	11.4	67.5	.58	80.2	75.7	NW b N	0.3		+	1		
3 „	.908	.248	81.8	71.8	10.0	67.0	.62	80.2	75.7	„	0.2		+	4		
4 „	.909	.245	80.8	71.6	9.2	67.2	.65	79.6	76.2	„	0.4		+	7		
5 „	.923	.268	77.4	70.3	7.1	66.8	.71	77.0	76.0	NNW	0.3		+	3		
6 „	.942	.310	75.2	68.9	6.3	65.7	.73	75.2	75.6	„	0.3		+	2		
7 „	.968	.329	74.8	69.0	5.8	66.0	.75	75.0	75.6	„	0.3		+	3		
8 „	.988	.359	74.2	68.5	5.7	65.5	.76	74.2	75.5	„	0.3		+	2		
9 „	30.000	.403	73.2	67.2	6.0	64.0	.74	73.0	75.3	N	0.3		+	3		
10 „	.007	.467	71.4	64.8	6.6	60.9	.71	71.6	74.9	„	0.2		+	3		
11 „	29.996	.460	68.7	63.7	5.0	60.7	.77	69.7	74.3	„	0.1		+	4		
Dec. 26th–Midnight	30.004	29.447	69.6	64.7	4.9	61.9	.78	70.0	74.1	N	0.1		+	4		Above 10m.
1 a. m.	29.988	.522	67.2	60.8	6.4	56.5	.70	67.7	73.5	„	0.1		+	1		Above 10m.
2 „	.979	.426	67.4	63.8	3.6	61.6	.83	68.2	73.3	„	0.0		+	6	6	Above 10m.
3 „	.965	.429	68.6	63.6	5.0	60.7	.77	69.2	73.3	„	0.0		+	3		Above 10m.
4 „	.975	.412	68.8	64.6	4.2	62.2	.81	68.8	73.2	„	0.0		+	8	7	3.30
5 „	.998	.479	68.4	63.0	5.4	59.7	.75	68.4	73.1	NE	0.1		+	7	6	Above 10m.
6 „	30.014	.491	68.0	63.0	5.0	60.0	.77	68.2	73.0	NE b E	0.1		+	4	3	Above 10m.
7 „	.042	.523	68.4	63.0	5.4	59.7	.75	69.0	72.8	„	0.1	None.	+	3	3	Above 10m.
8 „	.070	.503	71.0	65.5	5.5	62.4	.76	71.2	73.0	E b N	0.2		+	6	5	Above 10m.
9 „	.096	.567	73.0	65.0	8.0	60.3	.66	72.9	73.4	E	0.2		+	3		Above 10m.
10 „	.095	.520	75.2	67.2	8.0	62.8	.67	75.0	73.8	„	0.1		+	2		Above 10m.
11 „	.075	.555	77.6	66.3	11.3	59.8	.56	77.3	74.2	E b N	0.1		+	1		Above 10m.

Amount of Clouds 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ≀ cirri; ≀≀ cirro-cumuli; ∩ cumuli; ⌒ cirro-strati; ∩⌒ cumulo-strati; and ≀⌒ nimbi.	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°0 and 80°7. 23rd December was the forty-eighth cloudless day from the beginning of the year.
0	L	,,	
0	L	,,	
0	L	,,	
0	L	,,	
0	C	,,	
0	C	,,	
0	C	Mist in hor.	
0	C	,, ,,	
0	H	,, ,,	
0	H	,, ,,	
0	H	,, ,,	
0	H	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	C	Clear.	
0	C	,,	
0	C	,,	
0	C	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°0 and 80°7. 24th December was the forty-ninth cloudless day from the beginning of the year.
0	L	,,	
0	L	,,	
0	L	,,	
0	L	,,	
0	C	,,	
0	C	,,	
0	C	Mist in hor.	
0	C	,, ,,	
0	H	,, ,,	
0	H	,, ,,	
0	H	,, ,,	
0	H	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	C	Clear.	
0	C	,,	
0	C	,,	
0	C	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°0 and 80°8. 26th December was the fiftieth cloudless day from the beginning of the year.
0	L	,,	
0	L	,,	
0	L	,,	
0	L	,,	
0	C	,,	
0	C	,,	
0	C	Mist in hor.	
0	C	,, ,,	
0	C	,, ,,	
0	H	,, ,,	
0	H	,, ,,	

Bombay Civil Time. 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of tension after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Dec. 26th-Noon.	30.042	29.537	80°4	66°8	13°6	58°9	0.49	79°0	74°8		0.1		+	3		Above 10m.
1 p. m.	.013	.493	81.4	67.6	13.8	59.8	.50	79.7	75.2	N	0.2		+	1		Above 10m.
2 „	29.990	.388	81.2	70.0	11.2	64.2	.58	79.7	75.5	N b W	0.4		+	1		Above 10m.
3 „	.973	.356	80.6	70.2	10.4	65.0	.60	79.4	75.7	NW b N	0.5		+	1		Above 10m.
4 „	.970	.288	79.8	71.8	8.0	68.0	.68	79.0	75.6	„	0.5		+	1		Above 10m.
5 „	.981	.325	77.3	70.3	7.0	66.8	.71	76.5	75.6	„	0.4		+	1		Above 10m.
6 „	.990	.325	75.5	70.0	5.5	67.2	.77	75.4	75.4	NNW	0.5	None.	+	3		Above 10m.
7 „	30.018	.407	74.4	68.0	6.4	64.7	.73	74.2	75.3	„	0.3		+	2		Above 10m.
8 „	.038	.381	73.8	69.2	4.6	66.9	.80	74.0	75.1	„	0.1		+	3		Above 10m.
9 „	.053	.451	72.3	67.0	5.2	64.2	.77	72.3	75.0	„	0.1		+	5	3	2.17
10 „	.047	.461	70.4	65.9	4.5	63.4	.80	70.8	74.5	N	0.0		+	12	11	2.08
11 „	.031	.474	69.0	64.5	4.5	62.0	.79	70.2	74.1	„	0.0		+	12	11	2.30
Dec. 28th-Midnight	29.987	.506	67.8	61.5	6.3	57.5	.71	68.2	73.2	N	0.1					
1 a. m.	.969	.551	66.8	59.0	7.8	53.3	.64	67.5	72.8	„	0.0					
2 „	.954	.432	68.1	63.0	5.1	59.9	.76	68.8	72.6	„	0.0					
3 „	.950	.431	68.4	63.0	5.4	59.7	.75	68.4	72.8	„	0.0					
4 „	.955	.410	68.2	62.8	5.4	61.2	.75	68.5	72.6	„	0.0					
5 „	.967	.504	68.0	61.0	7.0	56.3	.68	68.0	72.5	N b E	0.1					
6 „	.988	.523	67.8	61.0	6.8	56.5	.69	68.0	72.4	NNE	0.1					
7 „	30.014	.495	68.6	63.1	5.5	59.7	.75	68.9	72.3	NE b N	0.1					
8 „	.040	.528	70.6	63.6	7.0	59.3	.69	70.9	72.5	„	0.1					
9 „	.060	.588	72.1	62.8	9.3	56.9	.61	72.0	72.7	„	0.2		+	1		Above 10m.
10 „	.063	.557	75.1	65.0	10.1	59.0	.59	74.9	73.3	„	0.2		+	2		Above 10m.
11 „	.045	.525	76.7	66.0	10.7	59.8	.58	75.9	73.7	NE	0.3	None.	+	2	None.	Above 10m.
Noon.	.010	.600	79.6	63.5	16.1	52.7	.42	78.9	74.2	ENE	0.3		+	1		Above 10m.
1 p. m.	29.981	.546	82.6	65.4	17.2	54.5	.40	81.9	75.0	„	0.1		+	1		Above 10m.
2 „	.952	.569	84.4	64.4	20.0	50.8	.33	83.0	75.5	„	0.0		+	1		Above 10m.
3 „	.940	.511	84.8	66.0	18.8	54.1	.36	83.4	75.8	N b W	0.2		+	1		Above 10m.
4 „	.943	.301	84.4	72.4	12.0	66.2	.57	82.8	76.2	NNW	0.3		+	1		Above 10m.
5 „	.958	.324	79.0	70.2	8.8	65.8	.65	77.9	76.0	„	0.3		+	1		Above 10m.
6 „	.975	.313	75.8	70.0	5.8	67.1	.76	75.6	75.5	N b W	0.5		+	2		4.00
7 „	30.001	.433	74.4	66.7	7.7	62.5	.68	74.3	75.3	„	0.3		+	2		Above 10m.
8 „	.022	.507	73.7	64.8	8.9	59.5	.63	74.0	75.2	„	0.3		+	1		Above 10m.
9 „	.039	.560	72.6	63.2	9.4	57.3	.61	72.4	75.0	N	0.2		+	2		Above 10m.
10 „	.039	.549	69.9	62.6	7.3	58.0	.68	70.2	74.4	„	0.1		+	2		Above 10m.
11 „	.018	.528	69.4	62.4	7.0	58.0	.69	70.0	74.0	„	0.1		+	1		Above 10m.
Dec. 29th-Midnight	.003	.540	68.0	61.0	7.0	56.3	.68	68.2	73.7	N	0.1		+	2		Above 10m.
1 a. m.	29.982	.494	69.6	62.4	7.2	57.9	.68	69.7	73.6	NE	0.0		+	2		Above 10m.
2 „	.968	.462	69.0	62.8	6.2	59.0	.72	69.7	73.3	„	0.0		+	2		Above 10m.
3 „	.955	.475	69.2	62.0	7.2	57.4	.68	69.5	73.2	„	0.2		+	4		3.30
4 „	.962	.420	69.0	64.0	5.0	61.0	.77	69.2	73.1	„	0.1		+	5		1.30
5 „	.991	.462	68.0	63.2	4.8	60.3	.78	68.0	72.9	„	0.1		+	2		3.15
6 „	30.016	.503	67.6	62.5	5.1	59.4	.76	67.7	72.5	NE b E	0.2		+	3		4.30
7 „	.040	.491	68.4	64.0	4.4	61.4	.79	68.8	72.5	„	0.1		+	2		5.00
8 „	.074	.556	71.2	64.0	7.2	59.7	.69	71.5	72.9	ENE	0.2		+	2		Above 10m.
9 „	.105	.652	73.0	62.5	10.5	55.7	.57	73.2	73.2	„	0.1		+	1		Above 10m.
10 „	.101	.637	76.1	64.0	12.1	56.4	.52	75.9	73.7	E b N	0.1		+	1		Above 10m.
11 „	.084	.606	77.6	65.0	12.6	57.3	.52	76.6	74.2	„	0.1	None.	+	2		Above 10m.
Noon.	.048	.668	78.5	62.1	16.4	50.5	.40	77.5	74.4	„	0.0		+	2		Above 10m.
1 p. m.	.018	.609	81.0	64.0	17.0	52.7	.40	79.2	74.8	ENE	0.0		+	5		Above 10m.
2 „	.002	.497	82.2	67.4	14.8	58.9	.47	80.8	75.3	NNW	0.2		+	2		Above 10m.
3 „	29.991	.431	82.0	69.0	13.0	62.0	.52	80.7	75.6	NW b N	0.1		+	1		Above 10m.
4 „	.991	.405	81.4	69.6	11.8	63.4	.56	79.6	75.7	„	0.2		+	2		Above 10m.
5 „	30.001	.365	78.2	70.0	8.2	65.9	.67	77.0	75.5	NW	0.1		+	1		Above 10m.
6 „	.024	.446	75.9	67.5	8.4	63.0	.66	75.9	75.4	„	0.1		+	2		Above 10m.
7 „	.044	.411	74.4	68.7	5.7	65.7	.76	74.2	75.2	N b W	0.5		+	2		Above 10m.
8 „	.065	.443	73.4	68.0	5.4	65.2	.77	73.8	75.0	„	0.4		+	2		Above 10m.
9 „	.085	.541	71.6	65.0	6.6	61.2	.71	71.2	74.6	N	0.2		+	11	10	4.50
10 „	.084	.564	69.4	63.4	6.0	59.8	.73	70.2	74.2	„	0.1		+	3		Above 10m.
11 „	.076	.587	68.4	62.0	6.4	58.0	.71	68.9	73.9	„	0.1		+	2		Above 10m.

Amount of Clouds 0—8.	Observers.	State of the Weather. Note.—In recording these Observations, the *Symbols* used to denote the clouds are: ∖ cirri; ⩘ cirro-cumuli; ∩ cumuli; ⌣ cirro-strati; ⌒ cumulo-strati; and ⩘ nimbi.	Remarks.
0	H	Mist in hor.	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	*Clear.	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	C	"	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°0 and 8°09.
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	C	"	
0	C	"	
0	C	Mist in hor.	28th December was the fifty-first cloudless day from the beginning of the year.
0	C	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°0 and 80°9. Daily Range of Standard Barometer was largest on this day in the month; and its reading at 9 A.M. was greatest during the month, and about 3.083in. higher than the Normal Mean.
0	L	"	
0	L	"	
0	L	"	
0	L	"	
0	C	"	
0	C	"	
0	C	Mist in hor.	29th December was the fifty-second cloudless day from the beginning of the year.
0	C	" "	
0	H	" "	
0	H	" "	
0	H	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	L	" "	
0	C	" "	
0	C	Clear.	
0	C	"	
0	C	"	
0	H	"	
0	H	"	
0	H	"	

Bombay Civil Time 1857.	Standard Barometer.		Thermometers.			Deduced Dew-point.	Humidity of Air.	Ground Thermometers.		Wind from Osler's Gauge.		Rain.	Electrical Instruments.			
	Corrected to 32° Fahr.	Corrected for Moisture.	In the Air.	Wet Bulb Thermometer.	Depression of Wet Bulb below Thermometer in the Air.			Thermometer on the Ground.	Thermometer 6 inches in the Ground.	Direction.	Pressure in lbs. per Square Foot.	By Newman's Gauge.	Sign of Electricity + or −	Readings of Straws of Volta 1.	Readings of Straws of Volta 2.	Interval of Time in recovering the same degree of Intensity after discharge.
	in.	in.									lbs.	in.		Sc. div.	Sc. div.	
Dec. 30th—Midnight	30.064	29.541	67°4	62°8	4°6	60°0	.78	68°2	73°5	N	0.1		+	5		4.00
1 a.m.	.045	.526	66.8	62.4	4.4	59.7	.79	67.8	73.2	„	0.0		+	1		Above 10m.
2 „	.038	.526	67.4	62.4	5.0	59.3	.77	67.4	73.0	„	0.0		+	3		Above 10m.
3 „	.032	.524	66.6	62.0	4.6	59.1	.78	67.0	72.7	„	0.1		+	4		Above 10m.
4 „	.029	.525	67.0	62.0	5.0	58.9	.77	67.2	72.6	NE	0.1		+	3		Above 10m.
5 „	.036	.507	66.6	62.7	3.9	60.3	.82	66.6	72.5	„	0.0		+	3		Above 10m.
6 „	.048	.521	66.0	62.4	3.6	60.2	.83	66.6	72.0	„	0.1		+	3		Above 10m.
7 „	.067	.525	67.4	63.4	4.0	61.0	.81	67.8	72.0	NE b E	0.1		+	3		Above 10m.
8 „	.094	.554	69.5	64.1	5.4	60.9	.76	69.9	72.4	ENE	0.1		+	2		Above 10m.
9 „	.100	.541	71.8	65.5	6.3	62.0	.73	71.6	72.7	„	0.2		+	1		Above 10m.
10 „	.089	.547	73.6	65.6	8.0	61.0	.67	73.2	73.0	„	0.2		+	1		Above 10m.
11 „	.062	.659	77.5	62.5	15.0	52.2	.44	77.6	73.7	NE b E	0.2					
Noon.	.026	.627	80.8	63.6	17.2	51.9	.39	80.2	74.3	NE	0.2	None.				
1 p. m.	29.989	.618	83.2	63.6	19.6	49.8	.34	83.0	75.0	NE b N	0.2					
2 „	.972	.598	85.4	64.4	21.0	50.0	.31	84.0	75.7	„	0.0					
3 „	.960	.350	83.6	71.0	12.6	64.6	.54	81.7	76.0	NNW	0.3		+	2		Above 10m.
4 „	.965	.339	82.2	71.0	11.2	65.4	.58	80.9	76.0	„	0.4		+	1		Above 10m.
5 „	.978	.352	78.8	69.9	8.9	65.4	.65	78.1	76.0	„	0.2		+	2		Above 10m.
6 „	.989	.327	75.8	70.0	5.8	67.1	.76	75.6	75.5	N b W	0.4		+	1		Above 10m.
7 „	30.018	.377	74.6	69.0	5.6	66.1	.76	74.3	75.2	„	0.6		+	1		Above 10m.
8 „	.033	.436	73.6	67.3	6.3	64.0	.73	73.8	75.0	„	0.5		+	4		Above 10m.
9 „	.047	.523	72.0	64.5	7.5	60.0	.68	72.2	74.8	„	0.2		+	3		4.00
10 „	.052	.538	70.7	63.7	7.0	59.4	.69	71.2	74.5	N	0.2		+	5	5	Above 10m.
11 „	.041	.536	69.6	63.0	6.6	58.9	.71	70.0	74.0	„	0.2		+	7	6	3.00
Dec. 31st—Midnight	.038	.549	68.4	62.0	6.4	58.0	.71	68.7	73.7	N b E	0.1		+	10	10	3.50
1 a. m.	.024	.545	70.4	62.4	8.0	57.3	.65	71.2	73.5	NE b N	0.2		+	Out of Sc.	24	0.10
2 „	.3	.529	69.4	62.4	7.0	58.0	.69	69.8	73.5	NE b E	0.1		+	6	5	Above 10m.
3 „	.014	.487	68.8	63.6	5.2	60.2	.77	69.0	73.3	„	0.1		+	9	8	3.30
4 „	.006	.477	68.6	63.4	5.2	60.3	.77	68.8	73.1	„	0.2		+	9	8	2.00
5 „	.014	.469	68.2	63.8	4.4	61.2	.80	68.3	72.9	„	0.1		+	11	10	4.20
6 „	.036	.504	67.7	63.2	4.5	60.5	.79	68.0	72.7	ENE	0.1		+	4		Above 10m.
7 „	.053	.506	67.7	63.7	4.0	61.3	.81	68.2	72.5	„	0.1		+	3		Above 10m.
8 „	.078	.576	69.9	63.0	6.9	58.7	.69	70.2	72.7	„	0.2		+	1		Above 10m.
9 „	.102	.561	71.9	65.0	6.9	61.0	.70	72.0	73.0	„	0.2		+	1		Above 10m.
10 „	.100	.620	74.6	64.0	10.6	57.4	.57	74.2	73.4	„	0.3		+	1		Above 10m.
11 „	.082	.612	77.2	64.6	12.6	56.8	.51	76.2	73.9	„	0.2		+	1		Above 10m.
Noon.	.043	.603	79.9	64.6	15.3	54.8	.44	79.0	74.5	„	0.2	None.	+	1		Above 10m.
1 p. m.	.014	.584	81.9	65.0	16.9	54.1	.41	80.6	75.0	NE b E	0.1		+	1		Above 10m.
2 „	29.994	.522	83.9	67.0	16.9	56.9	.42	82.2	75.5	„	1.1		+	3		Above 10m.
3 „	.980	.459	84.2	68.6	15.6	59.9	.46	82.7	75.9	N b W	0.1		+	1		Above 10m.
4 „	.978	.285	82.8	73.0	9.8	68.5	.63	80.6	76.1	NNW	0.1		+	1		Above 10m.
5 „	.982	.281	78.7	72.0	6.7	68.9	.73	78.2	75.9	„	0.1		+	1		Above 10m.
6 „	30.001	.308	76.2	71.0	5.2	68.5	.78	76.2	75,7	„	0.1		+	2		Above 10m.
7 „	.024	.339	74.4	70.2	4.2	68.1	.82	74.5	75.4	„	0.2		+	3		4.25
8 „	.040	.381	73.0	69.0	4.0	67.0	.82	73.6	75.1	„	0.1		+	5	3	2.00
9 „	.047	.459	72.0	66.5	5.5	63.5	.76	72.3	75.0	„	0.1		+	1		Above 10m.
10 „	.037	.459	70.0	65.5	4.5	63.0	.80	70.9	74.5	„	0.1		+	2		Above 10m.
11 „	.027	.477	70.0	64.6	5.4	61.5	.76	70.6	74.3	„	0.1		+	1		Above 10m.

Amount of Clouds. 0—8.	Observers.	State of the Weather.	Remarks.
		Note.—In recording these Observations, the Symbols used to denote the clouds are: ∖ cirri; ∨∖ cirro-cumuli; ∩∖ cumuli; ∪∖ cirro-strati; ∩∪∖ cumulo-strati; and ∨∪∖ nimbi.	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°0 and 80°9. The Temperature of Free Air at 2 P. M. was 85°4, the greatest in the month, being about 4°0 higher than the Normal Mean.
0	L	,,	
0	L	,,	
0	L	,,	
0	L	,,	
0	C	,,	
0	C	,,	
0	C	Mist and fog in hor.	
0	C	,, ,, ,,	
0	H	,, ,, ,,	
0	H	,, ,, ,,	
0	H	Mist in hor.	
0	H	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	L	,,	
0	C	,,	
0	C	Clear.	
0	C	,,	
0	C	,,	
0	H	,,	
0	H	,,	
0	H	,,	
0	H	Clear.	Mean daily Temperature of Ground 20 and 60 inches below its surface 77°0 and 81°0. 31st December was the fifty-fourth cloudless day from the beginning of the year.
0	L	,,	
0	L	,,	
0	L	,,	
0	L	,,	
0	C	,,	
0	C	,,	
0	C	Mist and fog in hor.	
0	C	,, ,, ,,	
0	H	,, ,, ,,	
0	H	,, ,, ,,	
0	H	,, ,, ,,	
0	H	Mist in hor.	
0	L	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	L	,, ,,	
0	C	,, ,,	
0	C	,, ,,	
0	C	Clear.	
0	C	,,	
0	H	,,	
0	H	,,	
0	H	,,	

BOMBAY MAGNETICAL OBSERVATORY.

EXTRAORDINARY ELECTROMETER OBSERVATIONS.

FOR 1857.

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
3rd Feb.	From 7h 30m P. M. to 7h 54m P. M.	Neg.	Out of Scale.	Out of Scale.	5	Inst.	7.35	0.08	2 in 3	
		,,	,,	,,	7	,,	.39	.10	2 ,, 1	
		,,	,,	,,	7	,,	.40	.12	3 ,, 4	
		,,	,,	,,	9	,,	.41	.13	4 ,, 1	
		,,	,,	,,	10	,,	.42	.13	2 ,, 1	7.42
		,,	,,	,,	8	,,	.43	.10	2 ,, 1	
		,,	,,	,,	5	,,	.44	.08	A spark.	
		,,	,,	,,	4	,,	.46	.07	2 in 1	
		Pos.	,,	,,	3	,,	.47	.08	2 ,, 1	
		,,	,,	,,	5	,,	.49	.09	2 ,, 1	
		,,	,,	,,	5	,,	.50	.10	Many.	
		,,	,,	,,	3	,,	.52	.07	A spark.	
		,,	0	0	0		.54			
							A. M.			
30th March.	From 1h 46m to 2h 1m A. M.	Neg.	Out of Scale.	Out of Scale.	5	Inst.	1.46	0.05	4 in 1	
		,,	,,	,,	6	,,	.47	.07	4 ,, 1	
		,,	,,	,,	5	,,	.49	.07	4 ,, 1	
		,,	,,	,,	7	,,	.55	.07	2 ,, 1	
		,,	,,	,,	9	,,	.57	.10	5 ,, 1	1.57
		,,	,,	,,	5	,,	2.00	.07	A spark.	
		,,	,,	100	0	0.10	.01			
							P. M.			
	From 8h to 8h 15m P. M.	Neg.	Out of Scale.	Out of Scale.	6	Inst.	8.01	0.07	1 in 1	
		,,	,,	,,	7	,,	.06	.06	2 ,, 3	
		,,	,,	,,	7	,,	.07	.06	2 ,, 3	8.07
		,,	,,	,,	6	,,	.09	.05	2 ,, 1	
		,,	,,	,,	3	,,	.10	.03	A spark.	
		,,	,,	,,	1	,,	.11	.01	A spark.	
		,,	,,	,,	1	,,	.14	.01	A spark.	
		,,	,,	45		0.35	.15			
25th May.	From 11h 5m P. M. to 11h 14m P. M.	Neg.	Out of Scale.	Out of Scale.	3	Inst.	11.05	0.06	3 in 1	
		,,	,,	,,	1	,,	.06	.04	1 ,, 1	11.06
		,,	,,	,,	3	,,	.07	.04	2 ,, 3	
		,,	,,	,,	3	,,	.08	.03	1 ,, 2	
		,,	,,	40	0	,,	.10			
		,,	12	0	0	Maintain.	.11			
			0	0	0		.14			
	From 11h 16m P. M. to 11h 31m P. M.	Neg.	Out of Scale.	100	0	Inst.	11.16			
		,,	,,	Out of Scale.	2	,,	.18	0.01	1 in 1	
		,,	,,	,,	2	,,	.19	.02	2 ,, 3	
		,,	,,	,,	2	,,	.21	.02	2 ,, 3	11.21
		,,	,,	,,	1	,,	.23	.02	1 ,, 2	
		,,	,,	,,	1	,,	.26	.02	2 ,, 3	
		,,	,,	,,	1	,,	.28	.01	A spark.	
		,,	,,	25	0	,,	.31			
27th May.	From 4h 7m A. M. to 4h 50m A. M.	Neg.	Out of Scale.	Out of Scale.	8	Inst.	4.07	0.07	A spark.	
		,,	,,	,,	9	,,	.10	.07	3 in 2	
		,,	,,	,,	9	,,	.12	.07	2 ,, 1	
		,,	,,	,,	11	,,	.13	.09	2 ,, 1	
		,,	,,	,,	9	,,	.14	.08	2 ,, 3	
		,,	,,	,,	9	,,	.17	.09	2 ,, 1	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind. Direction.	Wind. Force in lbs.	Extent of Cloudy Sky.	Remarks.
In.	°		lbs.		
30.027	76.0	NW	1.5	8/8	The sky overcast with ∿ᵢ; scud floating ENE; a single flash of lightning observed in NE; moderate gusts of wind.
		,,	,,	,,	
		,,	,,	,,	
		,,	1.0	,,	Light rain falling; overcast with ∿ᵢ.
		,,	,,	,,	
		,,	,,	,,	
		,,	0.7	,,	
		WNW	0.6	,,	
		W b N	0.7	,,	
		W	0.8	,,	Moderate breeze of wind; light rain.
		,,	,,	,,	
		WSW	,,	,,	
30.030	74.8	,,	0.5	,,	
29.760	79.9	Calm.	0.0	7/8	Rolling thunder in E and SE; lightning in NE.
		,,	,,	,,	
		,,	,,	,,	Lighting and thunder continuously noticed.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
29.758	80.0	,,	,,	,,	Overcast in ∿ᵢ; lightning continuously observed; thunder occasionally.
29.801	82.8	Calm.	0.0	5/8	Clouded with ∿ᵢ; lightning and thunder; light rain.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Lightning in W; light drops of rain falling.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
29.805	82.8	,,	,,	,,	
29.685	84.6	S	0.8	8/8	Overcast with ∿ᵢ; light rain falling.
		S b E	,,	,,	
		,,	,,	,,	
		,,	0.5	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Clouds a little dispersed towards W; light rain.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
29.681	84.6	,,	,,	,,	
29.645	81.4	SE	Light air.	8/8	Overcast with ∿ᵢ, moving SE; light rain in NE; thunder in N of zth.; light drops of rain falling.
		,,	,,	,,	
		SE b E	,,	,,	
		,,	,,	,,	Linghtning in NE; but no thunder; raining in drops.
		,,	,,	,,	
		,,	,,	,,	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Ronald's Spark Measure. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Readings of Electrometer. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
27th May.	From 4h 7m A. M. to 4h 50m A. M.	Neg.	Out of Scale.	Out of Scale.	10	Inst.	4.18	0.09	5 in 2	
		"	"	"	10	"	.21	.08	2 " 1	
		"	"	"	10	"	.23	.15	2 " 1	
		"	"	"	4 to 9	"	.26	.07	4 " 1	
		"	"	"	4 " 11	"	.28	.08	4 " 1	
		"	"	"	4 " 8	"	.31	.07	2 " 1	
		"	"	"	9	"	.35	.09	6 " 1	
		"	"	"	9 to 12	"	.36	.09	6 " 1	
		"	"	"	9 " 11	"	.37	.09	4 " 1	
		"	"	"	8 " 14	"	.39	.10	7 " 1	
		"	"	"	10 " 14	"	.40	.10	6 " 1	4.40
		"	"	"	8 " 11	"	.41	.09	8 " 1	
		"	"	"	8 " 11	"	.42	.09	4 " 1	
		"	"	"	6 " 12	"	.44	.08	3 " 1	
		"	"	"	5 " 8	"	.46	.07	1 " 1	
		"	0	0	0	"	.50			
	From 7h 7m A. M. to 8h 3m A. M.	Neg.	Out of Scale.	Out of Scale.	5	"	7.07	0.04	2 in 1	
		"	"	"	4	"	.24		2 " 1	
		"	"	"	2	"	.35	0.06	3 " 1	
		"	"	"	3	"	.37	.07	4 " 1	
		"	"	"	1	"	.39	.04	2 " 1	
		"	"	"	1 to 7	"	.40	.06	2 " 1	7.40
		"	"	"	2	"	.41	.07	2 " 1	
		"	"	"	1 to 2	"	.42	.03	3 " 2	
		"	"	"	2	"	.43		A spark.	
		"	5	0	0	Uncertain.	.44			
		"	Out of Scale.	Out of Scale.	2	Inst.	.46	0.03	5 in 3	
		"	"	"	3	"	.47	.02	A spark.	
		"	"	"	1 to 5	"	.48	.05	1 in 1	
		"	"	"	3	"	.48	.05	2 " 1	
		"	"	"	3	"	.50	.06	1 " 1	
		"	"	"	1	"	.52	.02	1 " 1	
		"	"	"	7	"	.55	.06	1 " 1	7.55
		"	"	"	2	Uncertain.	.58		1 " 1	
		"	"	"	2	"	.58			
		"	"	"	3	Inst.	.59	0.02	1 in 2	
		"	"	"	4	Uncertain.	.59		1 " 1	
		"	"	"	4	Inst.	8.00	0.04	1 " 2	
		"	"	"	3	"	.01	.04	1 " 2	
		"	"	"	6	Uncertain.	.03			
1st June.	From 7h 5m to 7h 67m P. M.	Neg.	Out of Scale.	Out of Scale.	4	Inst.	7.05	0.05	1 in 1	
		"	"	"	4	"	.06	.05	1 " 1	
		"	"	"	8	"	.08	.06	2 " 1	
		"	"	"	4	"	.17	.05	1 " 2	
		"	"	"	4	"	.22	.05	1 " 2	
		"	"	"	2	"	.24	.05	1 " 2	
		"	"	"	2	"	.27	.04	1 " 2	
		"	"	"	2	"	.29	.04	1 " 1	
		"	"	"	2	"	.32	.05	3 " 1	
		"	"	"	10	"	.34	.07	2 " 1	
		"	"	"	4	"	.36	.06	2 " 1	
		"	"	"	6	"	.37	.07	2 " 1	
		"	"	"	10	"	.40	.07	2 " 1	
		"	"	"	2	"	.42	.03	2 " 1	
		"	"	"	4	"	.43	.07	4 " 1	
		"	"	"	8	"	.44	.10	Volley.	7.45
		"	"	"	14	"	.45	.15		

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind. Direction.	Wind. Force in lbs.	Extent of Cloudy Sky.	Remarks.
In.	°		lbs.		
29.645	81.4	SE b E	Light air.	8/8	Lightning in NE, but no thunder; raining.
		,,	,,	,,	
		SSE	,,	,,	Thunder in zth.; faint flash of lightning in NE.
		,,	,,	,,	
		E b S	,,	,,	Lightning in NE; rain falling.
		NE	,,	,,	Thunder in NW of zth.; raining.
		,,	,,	,,	Lightning in NE; no thunder.
		,,	,,	,,	
		NNE	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Lightning in NE; light rain commenced to fall.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
29.650	79.4	,,	,,	,,	Lightning and thunder in NE; light rain.
29.670	82.8	W	0.5	8/8	Overcast with ∿ and ≀; light rain; lightning in NE.
		ENE	4.5	,,	Overcast; lightning in NE; smart gusts of wind.
		NNE	4.5	,,	
		,,	5.8	,,	Thunder in N; lightning in NE and N; light rain.
		,,	5.0	,,	
		,,	3.0	,,	Lightning and thunder in NE; light rain.
		,,	,,	,,	
		,,	1.0	,,	
		,,	,,	,,	Lightning in ENE and N; gusts of wind.
		,,	,,	,,	
		,,	,,	,,	
		,,	2.0	,,	
		,,	,,	,,	
		,,	1.5	,,	Thunder in zth.; lightning in NE and N; raining.
		NE b E	,,	,,	
		,,	,,	,,	Lightning in N; thunder in NW of zth.; raining.
		,,	,,	,,	
		,,	0.5	,,	Lightning in NE; thunder in NW of zth.; raining.
		,,	,,	,,	
		,,	,,	,,	Thunder and lightning in NE; raining.
29.668	84.6	,,	,,	,,	
		,,	,,	,,	The indications of Henly's and Ronald's became irregular, as
		,,	,,	,,	both of them were partially affected about the time of the
		,,	0.3	,,	flash of lightning.
		WNW	0.1	8/8	
		,,	,,	,,	Overcast with ∿ and ≀; lightning in E; thunder occasionally
		,,	,,	,,	heard.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Thunder in SE.
		,,	,,	,,	Thunder in E.
		,,	,,	,,	Thunder and lightning in E.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Thunder and lightning about zth.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Thunder about zth.; lightning in SE; light drops of rain.
		,,	,,	,,	
		,,	,,	,,	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding frequency.	Time of Maximum Tension.
			Sc. Div.	Sec. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
1st June.	From 7h 5m to 7h 57m P. M.	Neg.	Out of Scale.	Out of Scale.	6	Inst.	7.45	0.09	3 in 1	
		,,	,,	,,	6	,,	.46	.08	3 ,, 1	
		,,	,,	,,	8	,,	.47	.10	3 ,, 1	
		,,	,,	,,	6	,,	.47	.09	3 ,, 1	
		,,	,,	,,	6	,,	.47	.08	3 ,, 1	
		,,	,,	,,	12	,,	.48	.11	3 ,, 1	
		,,	,,	,,	6	,,	.50	.07	3 ,, 1	
		,,	,,	,,	2	,,	.52	.03	2 ,, 3	
		,,	,,	,,	2	0.01	.54	.02	2 ,, 3	
	From 7h 57m to 8h 18m P. M.	Neg.	10	0	0	5.00	7.57			
		,,	Out of Scale.	35	0	Inst.	.57			
		,,	,,	Out of Scale.	2	,,	.58	0.03	1 in 1	
		,,	,,	,,	4	,,	.59	.04	1 ,, 1	
		,,	,,	,,	4	,,	8.00	.05	1 ,, 1	
		,,	,,	,,	4	,,	.01	.04	1 ,, 2	
		,,	,,	,,	3	,,	.05	.03	1 ,, 1	
		,,	,,	,,	6	,,	.05	.05	1 ,, 1	
		,,	,,	,,	6	,,	.07	.06	1 ,, 1	
		,,	,,	,,	8	,,	.09	.07	2 ,, 1	8.09
		,,	,,	,,	4	,,	.11	.07	1 ,, 1	
		,,	,,	,,	4	,,	.13	.07	1 ,, 1	
		,,	,,	,,	6	,,	.14	.07	1 ,, 1	
		,,	,,	,,	4	,,	.15	.05	1 ,, 1	
		,,	,,	,,	2	,,	.16	.04	1 ,, 1	
		,,	,,	,,	2	,,	.16	.03	1 ,, 1	
		,,	,,	40	0	,,	.18			
	From 8h 18m to 9h 8m P. M.	Neg.	8	0	0	1.00	8.18			
		,,	Out of Scale.	Out of Scale.	2	Inst.	.19	0.02	2 in 1	
		,,	,,	,,	4	,,	.19	.04	2 ,, 1	
		,,	,,	,,	3	,,	.20	.05	2 ,, 1	
		,,	,,	,,	4	,,	.21	.05	2 ,, 1	
		,,	,,	,,	4	,,	.23	.05	2 ,, 1	
		,,	,,	,,	4	,,	.23	.06	2 ,, 1	
		,,	,,	,,	12	,,	.24	.10	2 ,, 1	
		,,	,,	,,	2	,,	.27	.04	2 ,, 1	
		,,	,,	,,	2	,,	.29	.05	2 ,, 1	
		,,	,,	,,	2	,,	.30	.05	2 ,, 3	
		,,	,,	,,	2	,,	.31	.05	2 ,, 3	
		,,	,,	,,	3	,,	.32	.06	2 ,, 3	
		,,	,,	,,	3	,,	.33	.06	2 ,, 1	
		,,	,,	,,	6	,,	.34	.06	2 ,, 1	
		,,	,,	,,	5	,,	.35	.07	2 ,, 1	
		,,	,,	,,	7	,,	.36	.08	3 ,, 2	
		,,	,,	,,	8	,,	.38	.08	3 ,, 1	
		,,	,,	,,	8	,,	.39	.09	3 ,, 1	
		,,	,,	,,	9	,,	.39	.09	2 ,, 1	
		,,	,,	,,	8	,,	.40	.09	2 ,, 1	
		,,	,,	,,	8	,,	.41	.09	2 ,, 1	
		,,	,,	,,	9	,,	.42	.09	4 ,, 1	
		,,	,,	,,	10	,,	.43	.09	Many.	
		,,	,,	,,	11	,,	.44	.11	Many.	
		,,	,,	,,	11 to 13	,,	.45	.10	Volley.	
		,,	,,	,,	10	,,	.46	.10	Many.	8.45
		,,	,,	,,	8 to 10	,,	.46	.10	Many.	
		,,	,,	,,	9	,,	.47	.08	3 ,, 1	
		,,	,,	,,	8	,,	.47	.07	2 ,, 1	
		,,	,,	,,	6	,,	.48	.06	2 ,, 1	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind. Direction.	Wind. Force in lbs.	Extent of Cloudy Sky.	Remarks.
In.	°		lbs.		
		WNW	0.1	8/8	
		"	"	"	Thunder about zth.; lightning in SE; light rain.
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Thunder and lightning about zth.; raining lightly.
		WNW	0.1	8/8	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Overcast with [illegible]; light rain; lightning.
		"	"	"	
		"	"	"	
		"	"	"	
		Calm.	0.0	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Thunder near zth.; lightning and light rain.
		"	"	"	
		Calm.	0.0	8/8	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Overcast; raining lightly.
		"	"	"	
		"	"	"	Thunder and lightning.
		"	"	"	
		"	"	"	Moderate rain.
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Overcast; raining lightly.
		"	"	"	
		WNW	0.1	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Overcast; raining.
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
1st June.	From 8h 18m to 9h 8m P. M.	Neg.	Out of Scale.	Out of Scale.	6	Inst.	8.49	0.06	2 in 1	
		,,	,,	,,	9	,,	.50	.07	2 ,, 1	
		,,	,,	,,	5	,,	.51	.07	2 ,, 1	
		,,	,,	,,	5	,,	.52	.07	2 ,, 1	
		,,	,,	,,	3	,,	.53	.05	2 ,, 1	
		,,	,,	,,	3	,,	.54	.05	2 ,, 1	
		,,	,,	,,	3	,,	.54	.06	2 ,, 1	
		,,	,,	,,	4	,,	.56	.06	1 ,, 1	
		,,	,,	,,	3	,,	.57	.05	1 ,, 1	
		,,	,,	,,	3	,,	.57	.05	1 ,, 1	
		,,	,,	,,	2	,,	.58	.05	1 ,, 1	
		,,	,,	,,	1	,,	.58	.04	1 ,, 1	
		,,	,,	,,	3	,,	.59	.05	1 ,, 1	
		,,	,,	,,	3	,,	9.00	.05	1 ,, 1	
		,,	,,	,,	2	,,	.01	.04	1 ,, 1	
		,,	,,	,,	1	,,	.02	.05	1 ,, 1	
		,,	,,	,,	2	,,	.03	.05	1 ,, 1	
		,,	,,	,,	1	,,	.04	.03	1 ,, 1	
		,,	,,	,,	1	,,	.05	.02	1 ,, 2	
	From 9h 8m to 9h 35m P. M.	Neg.	Out of Scale.	40	0	Uncertain.	9.07			
		,,	10	0	0	,,	.08			
		,,	Out of Scale.	Out of Scale.	1	Inst.	.08	0.02		
		,,	,,	,,	2	,,	.09	.04	1 in 1	
		,,	,,	,,	3	,,	.10	.05	1 ,, 1	
		,,	,,	,,	1	,,	.11	.04	1 ,, 1	
		,,	,,	,,	3	,,	.12	.05	1 ,, 1	
		,,	,,	,,	2	,,	.13	.04	1 ,, 1	
		,,	,,	,,	2	,,	.14	.04	1 ,, 1	
		,,	,,	,,	2	,,	.16	.04	1 ,, 1	
		,,	,,	,,	3	,,	.16	.05	1 ,, 1	
		,,	,,	,,	3	,,	.17	.03	1 ,, 1	
		,,	,,	,,	4	,,	.18	.03	1 ,, 1	
		,,	,,	,,	4	,,	.19	.03	1 ,, 1	
		,,	,,	,,	4	,,	.20	.03	1 ,, 1	
		,,	,,	,,	4	,,	.21	.03	1 ,, 1	9.21
		,,	,,	,,	4	,,	.22	.03	1 ,, 1	
		,,	,,	,,	4	,,	.23	.03	1 ,, 1	
		,,	,,	,,	4	,,	.25	.03	1 ,, 1	
		,,	,,	,,	2	,,	.26	.03	1 ,, 3	
		,,	,,	,,	2	,,	.27	.03	1 ,, 3	
		,,	,,	,,	2	,,	.28	.03	1 ,, 6	
		,,	,,	,,	1	,,	.29	.02	1 ,, 10	
		,,	,,	,,	1	,,	.30	.02	1 ,, 12	
		,,	10	10	0	,,	.33	.00		
		,,	Out of Scale.	25	0	0.16	.35	.00		
2nd June.	From 1h 45m to 2h 21m P. M.	Neg.	Out of Scale.	Out of Scale.	10	Inst.	1.45	0.10	2 in 1	
		,,	,,	,,	10	,,	.46	.10	2 ,, 1	
		,,	,,	,,	11	,,	.46	.10	2 ,, 1	
		,,	,,	,,	11	,,	.47	.11	2 ,, 1	
		,,	,,	,,	11	,,	.47	.12	2 ,, 1	
		,,	,,	,,	13	,,	.48	.13	1 ,, 1	
		,,	,,	,,	15	,,	.49	.14	1 ,, 1	1.49
		,,	,,	,,	13	,,	.51	.14	3 ,, 2	
		,,	,,	,,	14	,,	.52	.14	4 ,, 3	
		,,	,,	,,	12	,,	.53	.14	1 ,, 1	
		,,	,,	,,	12	,,	.54	.14	1 ,, 2	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind. Direction.	Wind. Force in lbs.	Extent of Cloudy Sky.	Remarks.
In.	°		lbs.		
		WNW	0.1	cirro	Overcast; raining.
		,,	,,	,,	
		,,	,,	,,	Thunder near zth.; no lightning observed.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast; raining; breaks in E.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Thunder about zth.; raining.
		,,	,,	,,	
		,,	,,	,,	Overcast; raining.
		,,	,,	,,	
		,,	,,	,,	
		W b N	0.1	cirro	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast with ; raining.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		W b S	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast in two strata, lower stratum moving W; no rain.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	0.2	,,	
		,,	,,	,,	
29.619	.880	NW	0.3	cirro	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		WNW	,,	,,	Overcast in two strata; thunder about zth.; no lightning vissible.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
2nd June.	From 1h 45m to 2h 13m P. M.	Neg.	Out of Scale.	Out of Scale.	11	Inst.	1.55	0.14	1 in 2	
		,,	,,	,,	13	,,	.56	.15	1 ,, 2	
		,,	,,	,,	14	,,	.57	.16	2 ,, 1	
		,,	,,	,,	13	,,	.58	.15	2 ,, 1	
		,,	,,	,,	13	,,	2.00	.15	2 ,, 1	
		,,	,,	,,	9	,,	.04	.14	2 ,, 1	
		,,	,,	,,	5	,,	.04	.15	1 ,, 1	
		,,	,,	,,	11	,,	.05	.15	1 ,, 1	
		,,	,,	,,	14	,,	.06	.17	2 ,, 1	
		,,	,,	,,	11	,,	.07	.11	2 ,, 1	
		,,	,,	,,	11	,,	.09	.09	2 ,, 1	
		,,	,,	,,	9	,,	.13	.03	2 ,, 1	
	From 2h 21m to 4h 49m P. M.	Neg.	Out of Scale.	50		0.02	2.21			
		,,	,,	Out of Scale.	2	Inst.	.24	0.01	1 in 1	
		,,	,,	,,	3	,,	.26	.02	1 ,, 1	
		,,	,,	,,	3	,,	.27	.05	1 ,, 1	
		,,	,,	,,	3	,,	.28	.05	1 ,, 1	
		,,	,,	,,	2	,,	.29	.03	1 ,, 1	
		,,	,,	,,	7	,,	.30	.06	1 ,, 1	
		,,	,,	,,	3 to 7	,,	.31	.04	1 ,, 1	
		,,	,,	,,	8	,,	.32	.07	1 ,, 1	
		,,	,,	,,	8	,,	.34	.08	1 ,, 1	
		,,	,,	,,	7	,,	.35	.08	1 ,, 1	
		,,	,,	,,	9	,,	.36	.09	1 ,, 2	
		,,	,,	,,	3	,,	.38	.03	1 ,, 2	
		,,	,,	,,	8	,,	.38	.10	2 ,, 1	
		,,	,,	,,	9	,,	.39	.10	2 ,, 1	
		,,	,,	,,	9	,,	.40	.10	2 ,, 1	
		,,	,,	,,	9 to 11	,,	.40	.10	2 ,, 1	
		,,	,,	,,	7 ,, 8	,,	.41	.09	1 ,, 1	
		,,	,,	,,	7	,,	.42	.08	1 ,, 1	
		,,	,,	,,	9	,,	.43	.08	1 ,, 1	
		,,	,,	,,	8	,,	.44	.08	1 ,, 1	
		,,	,,	,,	6	,,	.45	.05	1 ,, 1	
		,,	,,	,,	7 to 9	,,	.45	.08	2 ,, 1	
		,,	,,	,,	5 ,, 9	,,	.46	.05	2 ,, 1	
		,,	,,	,,	5 ,, 11	,,	.47	.08	2 ,, 1	
		,,	,,	,,	3 ,, 9	,,	.47	.06	2 ,, 1	
		,,	,,	,,	3 ,, 9	,,	.48	.07	2 ,, 1	
		,,	,,	,,	3 ,, 11	,,	.48	.05	2 ,, 1	
		,,	,,	,,	7	,,	.49	.07	3 ,, 2	
		,,	,,	,,	5	,,	.50	.07	3 ,, 2	
		,,	,,	,,	3 to 9	,,	.50	.07	3 ,, 2	
		,,	,,	,,	1 ,, 7	,,	.51	.07	3 ,, 2	
		,,	,,	,,	1 ,, 5	,,	.52	.07	3 ,, 2	
		,,	,,	,,	5 ,, 9	,,	.52	.09	3 ,, 2	
		,,	,,	,,	1 ,, 11	,,	.53	.09	3 ,, 2	
		,,	,,	,,	3 ,, 9	,,	.53	.09	3 ,, 2	
		,,	,,	,,	3 ,, 9	,,	.55	.09	3 ,, 2	
		,,	,,	,,	7 ,, 9	,,	.55	.10	3 ,, 2	
		,,	,,	,,	5 ,, 9	,,	.56	.10	3 ,, 2	
		,,	,,	,,	5 ,, 13	,,	.56	.11	3 ,, 2	
		,,	,,	,,	10	,,	.57	.07	3 ,, 2	
		,,	,,	,,	9 to 11	,,	.57	.10	3 ,, 1	
		,,	,,	,,	9	,,	.58	.12	3 ,, 1	
		,,	,,	,,	8	,,	.59	.11	2 ,, 1	
		,,	,,	,,	6	,,	3.00	.10	2 ,, 1	
		,,	,,	,,	9	,,	.03	.13	3 ,, 1	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind. Direction.	Wind. Force in lbs.	Extent of Cloudy Sky.	Remarks.
In.	°		lbs.		
		WNW	0.3	8/10	Overcast in two strata; thunder about zth.; no lightning visible.
		"	"	"	Thunder in N of zth.
		"	"	"	
		"	"	"	
.613	87.6	"	"	"	Continuous thunder in N and about zth.
		"	"	"	
		"	"	"	
		"	"	"	
		"	0.2	"	
		"	"	"	Overcast; light rain.
		"	"	"	
		"	"	"	Thunder in E of zth.
		WNW	0.1	8/10	Thunder in NE.
		W	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Overcast; thunder in NE.
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		SW b S	"	"	Overcast; thunder in E.
		W	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Overcast; thunder in E and SE.
		"	"	"	
		"	"	"	
		"	"	"	Thunder and lightning in E.
		"	"	"	Thunder in E; lightning in E.
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Overcast; light rain.
		"	"	"	
		"	"	"	
		W b S	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		WSW	"	"	Thunder in E.
		"	"	"	
		"	"	"	
		"	"	"	
		"	0.2	"	
		"	"	"	
		"	"	"	Overcast; thunder in E; raining.
29.624	84.8	SW b W	"	"	
		"	"	"	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
2ND JUNE.	From $2^h\ 21^m$ to $4^h\ 49^m$ P. M.	Neg.	Out of Scale.	Out of Scale.	9	Inst.	3.04	0.12	1 in 2	
		,,	,,	,,	9	,,	.06	.12	2 ,, 5	
		,,	,,	,,	7	,,	.11	.09	2 ,, 1	
		,,	,,	,,	13	,,	.19	.13	3 ,, 1	
		,,	,,	,,	9	,,	.19	.10	3 ,, 1	
		,,	,,	,,	5 to 13	,,	.19	.14	3 ,, 1	
		,,	,,	,,	13	,,	.20	.09	3 ,, 1	
		,,	,,	,,	7 to 15	,,	.21	.16	3 ,, 1	
		,,	,,	,,	7 ,, 17	,,	.21	.13	3 ,, 1	
		,,	,,	,,	5 ,, 19	,,	.22	.13	3 ,, 1	
		,,	,,	,,	5 ,, 9	,,	.23	.12	3 ,, 1	
		,,	,,	,,	7 ,, 13	,,	.23	.10	3 ,, 1	
		,,	,,	,,	3 ,, 15	,,	.24	.11	4 ,, 1	
		,,	,,	,,	11	,,	.26	.11	6 ,, 1	
		,,	,,	,,	11 to 17	,,	.26	.13	5 ,, 2	
		,,	,,	,,	13 ,, 19	,,	.27	.14	6 ,, 1	
		,,	,,	,,	13 ,, 21	,,	.28	.13	8 ,, 1	3.28
		,,	,,	,,	17	,,	.29	.13	6 ,, 1	
		,,	,,	,,	13	,,	.30	.13	6 ,, 1	
		,,	,,	,,	17	,,	.32	.15	6 ,, 1	
		,,	,,	,,	13	,,	.34	.13	3 ,, 1	
		,,	,,	,,	15	,,	.35	.15	2 ,, 1	
		,,	,,	,,	13	,,	.36	.15	4 ,, 1	
		,,	,,	,,	13	,,	.37	.20	6 ,, 1	
		,,	,,	,,	13	,,	.39	.13	3 ,, 1	
		,,	,,	,,	17	,,	.43	.14	5 ,, 1	
		,,	,,	,,	13	,,	.44	.15	4 ,, 1	
		,,	,,	,,	11 to 17	,,	.46	.20	2 ,, 1	
		,,	,,	,,	8	,,	.47	.11	2 ,, 1	
		,,	,,	,,	8	,,	.48	.10	2 ,, 1	
		,,	,,	,,	8	,,	.51	.10	2 ,, 1	
		,,	,,	,,	13	,,	.52	.12	2 ,, 1	
		,,	,,	,,	11	,,	.53	.12	2 ,, 1	
		,,	,,	,,	7 to 11	,,	.54	.10	1 ,, 1	
		,,	,,	,,	9	,,	.55	.09	1 ,, 1	
		,,	,,	,,	10	,,	.56	.09	3 ,, 1	
		,,	,,	,,	5 to 11	,,	.57	.11	3 ,, 1	
		,,	,,	,,	3 ,, 7	,,	.58	.10	2 ,, 1	
		,,	,,	,,	1 ,, 13	,,	.59	.10	4 ,, 1	
		,,	,,	,,	5 ,, 9	,,	.59	.09	2 ,, 1	
		,,	,,	,,	1 ,, 9	,,	4.01	.09	5 ,, 1	
		,,	,,	,,	3 ,, 11	,,	.01	.11	5 ,, 1	
		,,	,,	,,	3 ,, 13	,,	.03	.12	4 ,, 1	
		,,	,,	,,	3 ,, 13	,,	.04	.11	3 ,, 1	
		,,	,,	,,	7	,,	.05	.09	3 ,, 1	
		,,	,,	,,	5	,,	.06	.05	2 ,, 1	
		,,	,,	,,	3 to 9	,,	.08	.05	2 ,, 1	
		,,	,,	,,	5	,,	.09	.07	1 ,, 1	
		,,	,,	,,	5 to 9	,,	.11	.12	3 ,, 1	
		,,	,,	,,	13	,,	.12	.09	4 ,, 1	
		,,	,,	,,	3 to 9	,,	.14	.11	5 ,, 1	
		,,	,,	,,	6	,,	.14	.13	5 ,, 1	
		,,	,,	,,	3 to 13	,,	.16	.12	5 ,, 1	
		,,	,,	,,	5	,,	.17	.10	3 ,, 1	
		,,	,,	,,	3	,,	.18	.10	3 ,, 1	
		,,	,,	,,	3	,,	.19	.10	3 ,, 1	
		,,	,,	,,	5	,,	.20	.09	3 ,, 1	
		,,	,,	,,	7	,,	.21	.10	3 ,, 1	
		,,	,,	,,	5 to 15	,,	.22	.09	4 ,, 1	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind. Direction.	Wind. Force in lbs.	Extent of Cloudy Sky.	Remarks.
In.	°		lbs.		
		SW	0.2	s/s	
		,,	,,	,,	
		WSW	,,	,,	
		W	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast; thunder in E; raining.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Thunder in E.
		,,	,,	,,	Overcast; raining.
		W b N	,,	,,	
		,,	,,	,,	Thunder in S.
		,,	,,	,,	
		W	,,	,,	
		W b S	,,	,,	
		,,	,,	,,	Lightning and thunder about zth.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Lightning in S.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Lightning in N of zth.; thunder in N.
		,,	0.1	,,	Thunder about zth.; lightning in NE.
		,,	,,	,,	Lightning in NE.
		SSW	,,	,,	
		WSW	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
29.636	82.4	SW	0.8	,,	
		,,	,,	,,	Overcast; raining; lightning in E; thunder continuously heard in E of zth.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		WSW	0.4	,,	
		,,	,,	,,	Overcast with vu; raining.
		,,	,,	,,	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
2ND JUNE.	From 2h 21m to 4h 49m P. M.	Neg.	Out of Scale.	Out of Scale.	10	Inst.	4.23	0.10	4 in 1	
		,,	,,	,,	13	,,	.24	.11	4 ,, 1	
		,,	,,	,,	5 to 15	,,	.24	.11	4 ,, 1	
		,,	,,	,,	10	,,	.25	.11	4 ,, 1	
		,,	,,	,,	8	,,	.26	.08	3 ,, 1	
		,,	,,	,,	8	,,	.29	.07	3 ,, 1	
		,,	,,	,,	9	,,	.34	.07	4 ,, 3	
		,,	,,	,,	10	,,	.35	.07	3 ,, 2	
		,,	,,	,,	9	,,	.37	.08	3 ,, 2	
		,,	,,	,,	7	,,	.40	.07	3 ,, 2	
		,,	,,	,,	7	,,	.43	.03	1 ,, 1	
		,,	,,	,,	7	,,	.45	.02	1 ,, 1	
		,,	,,	,,	7	,,	.47	.01	1 ,, 1	
		,,	,,	,,	5	,,	.48	.01	1 ,, 1	
	From 4h 49m to 4h 56m P. M.	Neg.	Out of Scale.	50	0	0.02	4.49			4.52
		,,	,,	75	0	0.01	.50			
		,,	,,	Out of Scale.	7	Inst.	.52	0.03	1 in 1	
		,,	,,	,,	5	,,	.53	.02	1 ,, 2	
	From 4h 56m to 5h 7m P. M.	Neg.	Out of Scale.	50	0	0.02	4.56	0.00		
		,,	,,	Out of Scale.	7	Inst.	.57	.07	2 in 1	
		,,	,,	,,	9	,,	.57	.07	2 ,, 1	
		,,	,,	,,	5	,,	.58	.06	3 ,, 1	
		,,	,,	,,	7	,,	.59	.06	3 ,, 1	
		,,	,,	,,	9	,,	5.00	.07	3 ,, 1	
		,,	,,	,,	9	,,	.01	.07	3 ,, 1	
		,,	,,	,,	11	,,	.03	.08	5 ,, 2	5.03
		,,	,,	,,	9	,,	.04	.06	3 ,, 1	
		,,	,,	,,	1	,,	.07	.02	3 ,, 1	
	From 5h 36m to 6h 21m P. M.	Neg.	Out of Scale.	Out of Scale.	11	Inst.	5.36	0.09	4 in 1	
		,,	,,	,,	7 to 11	,,	.36	.09	3 ,, 1	
		,,	,,	,,	9	,,	.37	.10	3 ,, 1	
		,,	,,	,,	5 to 13	,,	.38	.08	2 ,, 1	
		,,	,,	,,	3 ,, 13	,,	.39	.08	2 ,, 1	
		,,	,,	,,	9	,,	.40	.08	2 ,, 1	
		,,	,,	,,	3 to 11	,,	.41	.15	Volley.	
		,,	,,	,,	11	,,	.42	.16	4 in 1	
		,,	,,	,,	11	,,	.43	.07	3 ,, 1	
		,,	,,	,,	7	,,	.44	.07	2 ,, 1	
		,,	,,	,,	7	,,	.45	.05	1 ,, 1	
		,,	,,	,,	3	,,	.46	.03	1 ,, 1	
		,,	,,	,,	5	,,	.47	.05	1 ,, 1	
		,,	,,	,,	9	,,	.48	.06	1 ,, 1	
		,,	,,	,,	15	,,	.50	.07	2 ,, 1	5.50
		,,	,,	,,	7	,,	.52	.07	2 ,, 1	
		,,	,,	,,	15	,,	.53	.05	2 ,, 1	5.53
		,,	,,	,,	5	,,	.54	.02	1 ,, 1	
		,,	,,	,,	3	,,	.57	.02	1 ,, 1	
		,,	,,	,,	7	,,	.58	.04	1 ,, 1	
		,,	,,	,,	5	,,	6.00	.02	1 ,, 1	
		,,	,,	,,	5	,,	.01	.03	2 ,, 1	
		,,	,,	,,	5	,,	.01	.05	2 ,, 1	
		,,	,,	,,	5	,,	.03	.05	3 ,, 1	
		,,	,,	,,	5	,,	.05	.05	2 ,, 1	
		,,	,,	,,	5	,,	.07	.04	2 ,, 3	
		,,	,,	,,	3	,,	.11	.03	1 ,, 1	
		,,	,,	,,	3	,,	.14	.02	1 ,, 1	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind. Direction.	Wind. Force in lbs.	Extent of Cloudy Sky.	Remarks.
In.	°		lbs.		
		WSW	0.4	8/8	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast with ∿ı; raining lightly.
		,,	,,	,,	
		,,	,,	,,	
		WSW	0.4	8/8	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		WSW	0.4	8/8	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Lightning and thunder in E.
29.638	79.6	,,	,,	,,	Thunder in E.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Lightning and thunder in E.
		,,	,,	,,	
		WNW	0.1	8/8	
		,,	,,	,,	
		W	,,	,,	Overcast; raining lightly.
		,,	,,	,,	
		WSW	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Thunder and lightning about zth.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Thunder near zth.; lightning about zth.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
29.682	79.2	,,	,,	,,	
		,,	,,	,,	Thunder and lightning about zth.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	

EXTLAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding. frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
2ND JUNE.	From 5h 36m to 6h 21m P. M.	Neg.	Out of Scale.	Out of Scale.	5	Inst.	6.17	0·05	2 in 1	
		,,	,,	50	0	0.02	·20			
		,,	12	0	0	0.03	.21			
11TH JUNE.	From 1h 27m to 4h 10m P. M.	Neg.	Out of Scale.	Out of Scale.	6	Inst.	1.27	0.05	2 in 1	
		,,	,,	,,	6	,,	.28	.06	3 ,, 1	
		,,	,,	,,	8	,,	.31	.07	1 ,, 1	
		,,	,,	,,	8	,,	.32	.07	4 ,, 1	
		,,	,,	,,	8	,,	.33	.07	3 ,, 1	
		,,	,,	,,	8	,,	.34	.07	3 ,, 1	
		,,	,,	,,	8	,,	.35	.07	1 ,, 1	
		,,	,,	,,	8	,,	.37	·08	2 ,, 1	
		,,	,,	,,	6	,,	.38	.06	1 ,, 2	
		,,	,,	,,	8	,,	.40	.07	1 ,, 2	
		,,	,,	,,	8	,,	.41	·07	1 ,, 1	
		,,	,,	,,	9	,,	.41	.08	2 ,, 1	
		,,	,,	,,	6	,,	.43	.06	1 ,, 1	
		,,	,,	,,	8	,,	.44	.08	1 ,, 3	
		,,	,,	,,	8	,,	.45	.08	3 ,, 1	
		,,	,,	,,	8	,,	.46	.07	1 ,, 8	
		,,	,,	,,	7	,,	.47	.06	3 ,, 1	
		,,	,,	,,	9	,,	.48	.09	3 ,, 1	
		,,	,,	,,	9	,,	.49	.10	1 ,, 1	
		,,	,,	,,	10	,,	.50	.11	2 ,, 1	
		,,	,,	,,	12	,,	.51	.14	3 ,, 1	
		,,	,,	,,	12	,,	.52	.20	1 ,, 1	
		,,	,,	,,	8	,,	.53	.23	1 ,, 1	
		,,	,,	,,	12	,,	.53	.10	1 ,, 1	
		,,	,,	,,	14	,,	.54	.10	2 ,, 1	
		,,	,,	,,	12	,,	.55	.12	2 ,, 1	
		,,	,,	,,	12	,,	.56	.11	2 ,, 1	
		,,	,,	,,	12	,,	.57	.11	2 ,, 1	
		,,	,,	,,	10	,,	.58	.10	1 ,, 1	
		,,	,,	,,	8	,,	.59	.10	3 ,, 1	
		,,	,,	,,	9	,,	2.00	.20	3 ,, 1	
		,,	,,	,,	12	,,	.01	.12	3 ,, 1	
		,,	,,	,,	10	,,	.03	·10	3 ,, 1	
		,,	,,	,,	6	,,	.04	.07	3 ,, 1	
		,,	,,	,,	10	,,	.06	.10	3 ,, 1	
		,,	,,	,,	10	,,	.07	.10	3 ,, 1	
		,,	,,	,,	8	,,	.08	.10	4 ,, 1	
		,,	,,	,,	10	,,	.10	.10	2 ,, 1	
		,,	,,	,,	9	,,	.11	.12	4 ,, 1	
		,,	,,	,,	6 to 16	,,	.12	.13	4 ,, 1	
		,,	,,	,,	10 ,, 12	,,	.13	.11	5 ,, 1	
		,,	,,	,,	8	,,	.15	.12	5 ,, 1	
		,,	,,	,,	8	,,	.16	.13	3 ,, 1	
		,,	,,	,,	10	,,	.16	.12	2 ,, 1	
		,,	,,	,,	10	,,	.18	.11	3 ,, 1	
		,,	,,	,,	10	,,	.19	.12	3 ,, 1	
		,,	,,	,,	11	,,	.20	.13	3 ,, 2	
		,,	,,	,,	14	,,	.21	.12	4 ,, 1	
		,,	,,	,,	10	,,	.21	.10	4 ,, 1	
		,,	,,	,,	6	,,	.28	.06	2 ,, 1	
		,,	,,	,,	8	,,	.32	.05	1 ,, 1	
		,,	,,	,,	8	,,	.33	.05	2 ,, 1	
		,,	,,	,,	8	,,	.36	.06	3 ,, 1	
		,,	,,	,,	8	,,	.38	.06	3 ,, 1	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind. Direction.	Wind. Force in lbs.	Extend of Cloudy Sky.	Remarks.
In.	°		lbs.		
		WSW	0.1	cu	Thunder and lightning about 2th.
		,,	,,	,,	
		,,	,,	,,	
29.738	85.0	S	0.3	cu	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast with cu; thunder in ESE.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		SSE	0.4	,,	Rumbling thunder in E.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		SE b S	0.5	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast with cu; thunder in E.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Raining.
		,,	,,	,,	
		ESE	0.3	,,	
		,,	,,	,,	Thunder and lightning in E; light drizzling rain.
		,,	,,	,,	
29.747	84.8	,,	,,	,,	
		,,	,,	,,	Thunder and lightning.
		,,	,,	,,	
		,,	,,	,,	Thunder about 2th.; lightning in NE.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Light rain; thunder and lightning.
		,,	,,	,,	
		,,	,,	,,	
		,,	0.7	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast with cu, moving NNW; drizzling rain.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Thunder and lightning in E.
		,,	,,	,,	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
11th June.	From 1h 27m to 4h 10m P. M.	Neg.	Out of Scale.	Out of Scale.	10	Inst.	2.41	0.07	3 in 1	
		,,	,,	,,	10	,,	.42	.09	3 ,, 1	
		,,	,,	,,	10	,,	.45	.09	3 ,, 1	
		,,	,,	,,	12	,,	.46	.12	2 ,, 1	
		,,	,,	,,	14	,,	.48	.13	3 ,, 1	
		,,	,,	,,	10	,,	.51	.10	1 ,, 1	
		,,	,,	,,	12	,,	.53	.10	2 ,, 1	
		,,	,,	,,	6	,,	.54	.06	1 ,, 1	
		,,	,,	,,	6	,,	.55	.06	1 ,, 1	
		,,	,,	,,	6	,,	.57	.05	2 ,, 1	
		,,	,,	,,	8	,,	.58	.07	2 ,, 1	
		,,	,,	,,	8	,,	.59	.07	2 ,, 1	
		,,	,,	,,	12	,,	3.00	.09	2 ,, 1	
		,,	,,	,,	12	,,	.01	.10	1 ,, 1	
		,,	,,	,,	12 to 16	,,	.03	.11	2 ,, 1	
		,,	,,	,,	10 ,, 16	,,	.04	.12	3 ,, 1	
		,,	,,	,,	4 ,, 14	,,	.05	.10	2 ,, 1	
		,,	,,	,,	4 ,, 14	,,	.06	.10	3 ,, 2	
		,,	,,	,,	6 ,, 12	,,	.07	.09	3 ,, 2	
		,,	,,	,,	8	,,	.08	.06	2 ,, 1	
		,,	,,	,,	6	,,	.09	.03	1 ,, 1	
		,,	,,	,,	8	,,	.10	.06	1 ,, 1	
		,,	,,	,,	8	,,	.11	.07	2 ,, 1	
		,,	,,	,,	4 to 12	,,	.12	.08	2 ,, 1	
		,,	,,	,,	10	,,	.13	.09	3 ,, 1	
		,,	,,	,,	4 to 16	,,	.15	.11	2 ,, 1	
		,,	,,	,,	0 ,, 16	,,	.16	.10	2 ,, 1	
		,,	,,	,,	0 ,, 16	,,	.16	.11	2 ,, 1	
		,,	,,	,,	4 ,, 16	,,	.17	.10	2 ,, 1	
		,,	,,	,,	6 ,, 14	,,	.18	.10	2 ,, 1	
		,,	,,	,,	4 ,, 16	,,	.19	.10	3 ,, 2	
		,,	,,	,,	6 ,, 18	,,	.20	.11	3 ,, 1	3.20
		,,	,,	,,	6 ,, 16	,,	.21	.11	2 ,, 1	
		,,	,,	,,	10 ,, 16	,,	.22	.11	3 ,, 1	
		,,	,,	,,	6 ,, 16	,,	.22	.10	3 ,, 1	
		,,	,,	,,	8 ,, 14	,,	.23	.10	3 ,, 1	
		,,	,,	,,	4 ,, 12	,,	.24	.08	3 ,, 1	
		,,	,,	,,	2 ,, 16	,,	.25	.11	3 ,, 1	
		,,	,,	,,	4 ,, 12	,,	.26	.09	3 ,, 1	
		,,	,,	,,	2 ,, 12	,,	.27	.08	3 ,, 1	
		,,	,,	,,	10	,,	.28	.10	2 ,, 1	
		,,	,,	,,	6 to 12	,,	.29	.09	1 ,, 1	
		,,	,,	,,	4 ,, 16	,,	.30	.12	3 ,, 1	
		,,	,,	,,	12	,,	.30	.12	3 ,, 1	
		,,	,,	,,	12	,,	.31	.12	3 ,, 1	
		,,	,,	,,	6 to 16	,,	.32	.12	3 ,, 1	
		,,	,,	,,	12	,,	.32	.09	3 ,, 1	
		,,	,,	,,	8	,,	.33	.08	2 ,, 1	
		,,	,,	,,	8	,,	.34	.07	2 ,, 1	
		,,	,,	,,	6 to 14	,,	.36	.08	3 ,, 1	
		,,	,,	,,	8 ,, 14	,,	.37	.07	2 ,, 1	
		,,	,,	,,	9	,,	.38	.07	2 ,, 1	
		,,	,,	,,	7	,,	.39	.06	1 ,, 1	
		,,	,,	,,	10	,,	.40	.08	2 ,, 1	
		,,	,,	,,	6	,,	.41	.05	1 ,, 1	
		,,	,,	,,	8	,,	.42	.05	2 ,, 1	
		,,	,,	,,	8	,,	.42	.05	2 ,, 1	
		,,	,,	,,	4 to 12	,,	.43	.05	2 ,, 1	
		,,	,,	,,	8	,,	.44	.06	2 ,, 1	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind. Direction.	Wind. Force in lbs.	Extent of Cloudy Sky.	Remarks.
In.	°		lbs.		
		ESE	0.7	∞	Thunder and lightning in E.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Thunder about zth.; lightning in E.
		,,	,,	,,	
		,,	,,	,,	Overcast; light rain.
		,,	,,	,,	
		,,	,,	,,	
		SSE	0.2	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Thunder and lightning in NW; light rain.
29.741	81.4	,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast; raining.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Thunder and lightning; light rain.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		S	0.1	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast; raining; thunder in NW.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Thunder and lightning; light rain.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
11TH JUNE.	From 1h 27m to 4h 10m P. M.	Neg.	Out of Scale.	Out of Scale.	9	Inst.	3.45	0.08	2 in 1	
		,,	,,	,,	6	,,	.46	.06	1 ,, 1	
		,,	,,	,,	6	,,	.47	.06	1 ,, 1	
		,,	,,	,,	8	,,	.48	.07	1 ,, 1	
		,,	,,	,,	6	,,	.50	.05	2 ,, 3	
		,,	,,	,,	6	,,	.51	.04	1 ,, 3	
		,,	,,	,,	6	,,	.52	.04	1 ,, 2	
		,,	,,	,,	8	,,	.54	.06	1 ,, 1	
		,,	,,	,,	7	,,	.55	.07	1 ,, 1	
		,,	,,	,,	6	,,	.58	.06	1 ,, 2	
		,,	,,	,,	6	,,	.59	.06	1 ,, 1	
		,,	,,	,,	6	,,	4.06	.03	1 ,, 3	
		,,	,,	75	0	,,	.10	.01	A spark.	
12TH JUNE.	From 8h to 10h 14m P. M.	Neg.	Out of Scale.	Out of Scale.	4	Inst.	8.00	0.04	1 in 3	
		,,	,,	,,	4	,,	.03	.04	1 ,, 2	
		,,	,,	,,	4	,,	.04	.04	1 ,, 2	
		,,	,,	,,	4	,,	.05	.04	1 ,, 2	
		,,	,,	,,	4	,,	.06	.04	1 ,, 2	
		,,	,,	,,	4	,,	.08	.03	1 ,, 2	
		,,	,,	,,	4	,,	.12	.03	1 ,, 1	
		,,	,,	,,	10	,,	.22	.04	2 ,, 1	
		,,	,,	,,	7	,,	.28	.03	1 ,, 1	
		,,	,,	,,	6 to 8	,,	.31	.02	1 ,, 2	
		,,	,,	,,	8	,,	.33	.04	3 ,, 1	
		,,	,,	,,	8	,,	.34	.04	2 ,, 1	
		,,	,,	,,	8	,,	.35	.04	3 ,, 1	
		,,	,,	,,	9	,,	.36	.04	3 ,, 1	
		,,	,,	,,	8	,,	.38	.04	2 ,, 1	
		,,	,,	,,	6	,,	.40	.03	3 ,, 1	
		,,	,,	,,	8	,,	.42	.05	1 ,, 1	
		,,	,,	,,	10	,,	.43	.07	2 ,, 1	
		,,	,,	,,	8	,,	.44	.05	1 ,, 1	
		,,	,,	,,	9	,,	.45	.07	2 ,, 3	
		,,	,,	,,	9	,,	.46	.07	2 ,, 1	
		,,	,,	,,	10	,,	.46	.08	3 ,, 1	
		,,	,,	,,	12	,,	.46	.08	4 ,, 1	
		,,	,,	,,	8	,,	.47	.07	2 ,, 1	
		,,	,,	,,	8	,,	.48	.07	1 ,, 1	
		,,	,,	,,	4	,,	.49	.03	1 ,, 2	
		,,	,,	,,	10	,,	.50	.07	2 ,, 1	
		,,	,,	,,	10	,,	.51	.07	1 ,, 1	
		,,	,,	,,	13	,,	.52	.09	3 ,, 1	
		,,	,,	,,	14	,,	.53	.09	3 ,, 1	
		,,	,,	,,	8 to 12	,,	.53	.08	3 ,, 1	
		,,	,,	,,	8 ,, 14	,,	.54	.10	3 ,, 1	
		,,	,,	,,	12	,,	.55	.10	3 ,, 1	
		,,	,,	,,	6 to 14	,,	.56	.09	3 ,, 1	
		,,	,,	,,	8 ,, 12	,,	.57	.09	3 ,, 1	
		,,	,,	,,	8 ,, 16	,,	.58	.11	4 ,, 1	
		,,	,,	,,	12	,,	.59	.11	2 ,, 1	
		,,	,,	,,	12	,,	9.00	.11	2 ,, 1	
		,,	,,	,,	11	,,	.03	.09	3 ,, 1	
		,,	,,	,,	16	,,	.04	.12	Many.	
		,,	,,	,,	10	,,	.05	.09	1 in 1	
		,,	,,	,,	10	,,	.06	.10	1 ,, 1	
		,,	,,	,,	12	,,	.07	.10	4 ,, 1	
		,,	,,	,,	12	,,	.08	.10	1 ,, 1	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind, Direction.	Wind, Force in lbs.	Extent of Cloudy Sky.	REMARKS.
In.	°		lbs.		
		S	0.1	8/8	Rain ceased.
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Rolling thunder in W.
		"	"	"	Thunder in W and SW; lightning.
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
29.733	79.4	"	"	"	
		"	"	"	
29.630	85.1	Calm.	0.0	8/8	Overcast with ∿.ı; continuous lightning in E and NE; occasional thunder in NE; gloomy appearance in E.
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Thunder about zth.
		"	"	"	Thunder and lightning; *light* rain.
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Rain ceased.
		"	"	"	
		"	"	"	Thunder about zth.; lightning in SE and E.
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Overcast; lightning in SE.
		"	"	"	Light rain.
		"	"	"	
		"	"	"	Thunder in SE of zth.; lightning in SE.
29.649	78.4	"	"	"	
		"	"	"	
		"	"	"	Thunder and lightning in S.
		"	"	"	
		"	"	"	
		"	"	"	Thunder about zth.; lightning in S.
		"	"	"	Rain ceased.

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding. frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
12th June.	From 8h to 10h 14m P. M.	Neg.	Out of Scale.	Out of Scale.	12	Inst.	9.09	0.10	2 in 1	
		"	"	"	8	"	.10	.07	1 " 1	
		"	"	"	16	"	.12	.13	4 " 1	
		"	"	"	10	"	.13	.09	1 " 1	
		"	"	"	10	"	.16	.10	2 " 1	
		"	"	"	17	"	.17	.14	4 " 1	9.17
		"	"	"	12	"	.18	.11	3 " 1	
		"	"	"	14	"	.19	.12	3 " 1	
		"	"	"	10	"	.20	.10	1 " 1	
		"	"	"	14	"	.21	.13	3 " 1	
		"	"	"	13	"	.22	.10	2 " 1	
		"	"	"	8	"	.22	.07	1 " 1	
		"	"	"	8	"	.23	.13	4 " 1	
		"	"	"	8	"	.24	.07	1 " 1	
		"	"	"	8	"	.28	.07	1 " 1	
		"	"	"	8	"	.29	.07	1 " 1	
		"	"	"	12	"	.31	.10	2 " 1	
		"	"	"	12	"	.32	.10	2 " 1	
		"	"	"	12	"	.33	.10	2 " 1	
		"	"	"	14	"	.34	.11	3 " 1	
		"	"	"	14	"	.35	.11	3 " 1	
		"	"	"	14	"	.36	.11	2 " 1	
		"	"	"	12 to 16	"	.37	.12	1 " 1	
		"	"	"	12 " 16	"	.38	.12	2 " 1	
		"	"	"	12	"	.39	.11	2 " 1	
		"	"	"	12	"	.40	.10	1 " 1	
		"	"	"	6 to 14	"	.41	.08	1 " 1	
		"	"	"	10 " 14	"	.42	.09	2 " 1	
		"	"	"	4 " 14	"	.43	.09	1 " 1	
		"	"	"	6 " 14	"	.44	.09	2 " 1	
		"	"	"	10	"	.45	.09	2 " 1	
		"	"	"	10 to 12	"	.46	.09	3 " 1	
		"	"	"	10	"	.47	.08	1 " 1	
		"	"	"	8	"	.48	.07	2 " 1	
		"	"	"	8	"	.49	.07	2 " 1	
		"	"	"	10	"	.50	.09	2 " 1	
		"	"	"	10	"	.52	.08	1 " 1	
		"	"	"	6	"	.53	.05	1 " 2	
		"	"	"	6	"	.54	.05	1 " 3	
		"	"	"	6	"	.55	.06	1 " 1	
		"	"	"	6	"	.56	.06	1 " 2	
		"	"	"	8	"	.57	.07	1 " 1	
		"	"	"	8	"	.58	.07	1 " 3	
		"	"	"	6	"	.59	.06	1 " 3	
		"	"	"	4	"	10.00	.06	1 " 4	
		"	"	"	2	"	.02	.01	1 " 3	
		"	"	"	4	"	.03	.04	1 " 2	
		"	"	"	8	"	.04	.07	1 " 1	
		"	"	"	4 to 14	"	.05	.09	2 " 1	
		"	"	"	6 " 12	"	.05	.09	2 " 1	
		"	"	"	6 " 14	"	.06	.09	2 " 1	
		"	"	"	4 " 16	"	.07	.10	1 " 1	
		"	"	"	10	"	.08	.10	1 " 1	
		"	"	"	6 to 14	"	.09	.11	2 " 1	
		"	"	"	12	"	.10	.09	3 " 1	
		"	"	"	10	"	.12	.07	1 " 1	
		"	"	"	8	"	.13	.06	1 " 1	
		"	"	"	6	"	.14	.04	1 " 1	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind. Direction.	Wind. Force in lbs.	Extent of Cloudy Sky.	Remarks.
In.	°		lbs.		
		Calm.	0.0	0s	
		,,	,,	,,	
		,,	,,	,,	Rolling thunder about zth.; lightning thereabout.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast; drizzling rain; thunder about zth.; lightning from NE to SSW.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
13th June.	From 7h 58m to 10h 3m P. M.	Neg.	Out of Scale.	Out of Scale.	14	Inst.	7.58	0.18	1 in 2	
		,,	,,	,,	13	,,	8.00	.15	1 ,, 1	
		,,	,,	,,	12	,,	.02	.15	1 ,, 1	
		,,	,,	,,	16	,,	.04	.16	2 ,, 1	
		,,	,,	,,	17	,,	.06	.19	2 ,, 1	
		,,	,,	,,	18	,,	.08	.20	1 ,, 1	8.08
		,,	,,	,,	14	,,	.12	.13	3 ,, 1	
		,,	,,	,,	10 to 14	,,	.23	.16	1 ,, 1	
		,,	,,	,,	10 ,, 14	,,	.28	.12	1 ,, 1	
		,,	,,	,,	10 ,, 12	,,	.33	.10	2 ,, 1	
		,,	,,	,,	11	,,	.38	.08	1 ,, 1	
		,,	,,	,,	10	,,	.43	.11	1 ,, 1	
		,,	,,	,,	5 to 12	,,	.48	.12	1 ,, 2	
		,,	,,	,,	8	,,	.53	.09	4 ,, 1	
		,,	,,	,,	10	,,	.58	.11	1 ,, 1	
		,,	,,	,,	12	,,	9.03	.12	1 ,, 1	
		,,	,,	,,	10	,,	.13	.12	1 ,, 2	
		,,	,,	,,	6 to 12	,,	.23	.10	1 ,, 1	
		,,	,,	,,	9	,,	.33	.08	3 ,, 1	
		,,	,,	,,	7	,,	.43	.08	3 ,, 1	
		,,	,,	,,	6	,,	.53	.07	4 ,, 1	
		,,	,,	,,	4	,,	10.03	.04	5 ,, 1	
14th June.	From 7h 44m to 9h 48m P. M.	Neg.	Out of Scale.	Out of Scale.	1	Inst.	7.44	0.01	Spark.	
		,,	,,	,,	2	,,	.53	.03	1 in 3	
		,,	,,	,,	1	,,	.56	.03	1 ,, 4	
		,,	,,	,,	1	,,	.58	.04	1 ,, 5	
		,,	,,	,,	1	,,	8.01	.03	1 ,, 7	
		,,	,,	,,	1	,,	.05	.02	1 ,, 2	
		,,	,,	,,	2	,,	.07	.04	2 ,, 1	
		,,	,,	,,	2	,,	.08	.04	1 ,, 2	
		,,	,,	,,	2	,,	.10	.04	1 ,, 1	
		,,	,,	,,	2	,,	.12	.03	2 ,, 1	
		,,	,,	,,	2	,,	.16	.03	1 ,, 2	
		,,	,,	,,	2	,,	.20	.03	1 ,, 2	
		,,	,,	,,	3	,,	.21	.04	1 ,, 2	
		,,	,,	,,	4	,,	.23	.05	1 ,, 1	
		,,	,,	,,	3	,,	.24	.04	1 ,, 3	
		,,	,,	,,	2	,,	.26	.03	1 ,, 3	
		,,	,,	,,	1	,,	.28	.02	1 ,, 5	
		,,	,,	,,	2	,,	.30	.03	1 ,, 3	
		,,	,,	,,	2	,,	.32	.03	1 ,, 4	
		,,	,,	,,	2	,,	.33	.03	2 ,, 3	
		,,	,,	,,	1	,,	.35	.02	2 ,, 3	
		,,	,,	,,	4	,,	.38	.05	2 ,, 3	
		,,	,,	,,	4	,,	.41	.04	1 ,, 1	
		,,	,,	,,	5	,,	.43	.07	2 ,, 1	
		,,	,,	,,	5	,,	.45	.06	2 ,, 1	
		,,	,,	,,	9 to 11	,,	.47	.08	3 ,, 1	
		,,	,,	,,	10 ,, 11	,,	.49	.07	3 ,, 1	
		,,	,,	,,	12	,,	.51	.08	4 ,, 1	8.51
		,,	,,	,,	10 to 11	,,	.54	.09	2 ,, 1	
		,,	,,	,,	10	,,	.56	.10	3 ,, 1	
		,,	,,	,,	10	,,	.58	.10	4 ,, 1	
		,,	,,	,,	10	,,	9.03	.10	3 ,, 1	
		,,	,,	,,	6 to 9	,,	.13	.06	2 ,, 1	
		,,	,,	,,	8	,,	.18	.07	3 ,, 1	
		,,	,,	,,	6	,,	.20	.06	2 ,, 1	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind. Direction.	Wind. Force in lbs.	Extent of Cloudy Sky.	Remarks.
In.	°		lbs.		
		Calm.	0.0	8/8	
29.750	81.0	,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast with ∿; lightning and thunder from N to E; light rain.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast; continuous lightning and thunder in W and NW; light rain.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast; lightning and thunder in NW.
29.766	79.0	,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast; raining; lightning and thunder in N and NE.
		,,	,,	,,	
29.752	78.8	,,	,,	,,	
		SW	0.1	8/8	Overcast; lightning in NE.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Thunder in NE; lightning from N to SE; raining.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		SSW	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		NE	,,	,,	
		,,	,,	,,	
		,,	0.5	,,	
		N	,,	,,	
		,,	,,	,,	Thunder about zth.; lightning in NW, N, and NE; densely clouded with ∿; light rain.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		NNW	0.1	,,	Overvast; thunder in NNW; lightning from N to E hor.
		,,	,,	,,	
		,,	,,	,,	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
14th June.	From 7h 44m to 9h 48m P. M.	Neg.	Out of Scale.	Out of Scale.	6 to 7	Inst.	9.24	0.06	2 in 1	
		,,	,,	,,	6	,,	.28	.05	2 ,, 1	
		,,	,,	,,	6	,,	.39	.06	2 ,, 1	
		,,	,,	,,	6 to 7	,,	.41	.07	2 ,, 1	
		,,	,,	,,	8	,,	.43	.07	3 ,, 1	
		,,	,,	,,	8	,,	.46	.06	2 ,, 1	
		,,	,,	,,	4	,,	.47	.08	1 ,, 1	
		,,	,,	,,	2	,,	.48	.03	1 ,, 3	
16th June.	From 9h 28m to 9h 58m P. M.	Neg.	Out of Scale.	Out of Scale.	7	Inst.	9.28	0.03	2 in 3	
		,,	,,	,,	7	,,	.29	.03	2 ,, 3	
		,,	,,	,,	7	,,	.33	.03	1 ,, 2	
		,,	,,	,,	6	,,	.35	.02	1 ,, 2	
		,,	,,	,,	8	,,	.37	.03	1 ,, 1	
		,,	,,	,,	8	,,	.38	.03	1 ,, 1	
		,,	,,	,,	7	,,	.43	.04	1 ,, 1	
		,,	,,	,,	8	,,	.44	.05	1 ,, 2	
		,,	,,	,,	8	,,	.45	.05	1 ,, 2	9.45
		,,	,,	,,	8	,,	.46	.05	2 ,, 3	
		,,	,,	,,	5	,,	.48	.03	1 ,, 2	
		,,	,,	,,	3	,,	.51	.02	1 ,, 1	
		,,	,,	60	0	,,	.53	.01	Sparks.	
		,,	,,	50	0	,,	.56	.01	Sparks.	
		,,	,,	Out of Scale.	4	,,	.58	.03	1 in 2	
18th June.	From 12h to 12h 36m P. M.	Neg.	Out of Scale.	Out of Scale.	6	Inst.	12.00	0.04	2 in 1	
		,,	,,	,,	6	,,	.01	.05	2 ,, 1	
		,,	,,	,,	6	,,	.02	.04	2 ,, 1	
		,,	,,	,,	8	,,	.04	.07	2 ,, 1	
		,,	,,	,,	8	,,	.05	.07	2 ,, 1	
		,,	,,	,,	7	,,	.06	.06	1 ,, 1	
		,,	,,	,,	8	,,	.07	.07	2 ,, 1	
		,,	,,	,,	8	,,	.08	.07	2 ,, 1	
		,,	,,	,,	8	,,	.09	.06	2 ,, 1	
		,,	,,	,,	8	,,	.10	.07	2 ,, 1	
		,,	,,	,,	8	,,	.11	.08	3 ,, 1	
		,,	,,	,,	10	,,	.12	.09	2 ,, 1	
		,,	,,	,,	12	,,	.13	.10	3 ,, 1	
		,,	,,	,,	13	,,	.14	.11	3 ,, 1	
		,,	,,	,,	14	,,	.15	.12	2 ,, 1	
		,,	,,	,,	14	,,	.16	.13	2 ,, 1	
		,,	,,	,,	15	,,	.17	.13	2 ,, 1	
		,,	,,	,,	16	,,	.18	.13	2 ,, 1	
		,,	,,	,,	18	,,	.19	.15	3 ,, 1	
		,,	,,	,,	15	,,	.20	.15	1 ,, 1	12.20
		,,	,,	,,	15	,,	.21	.14	2 ,, 1	
		,,	,,	,,	14	,,	.22	.13	3 ,, 1	
		,,	,,	,,	14	,,	.23	.13	3 ,, 1	
		,,	,,	,,	13	,,	.24	.12	3 ,, 1	
		,,	,,	,,	12	,,	.25	.12	1 ,, 1	
		,,	,,	,,	10	,,	.26	.10	1 ,, 1	
		,,	,,	,,	10	,,	.27	.09	1 ,, 1	
		,,	,,	,,	7	,,	.28	.06	1 ,, 1	
		,,	,,	,,	7	,,	.28	.06	2 ,, 1	
		,,	,,	,,	6	,,	.29	.05	1 ,, 1	
		,,	,,	,,	6	,,	.30	.04	1 ,, 2	
		,,	,,	,,	4	,,	.31	.03	1 ,, 1	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind. Direction.	Wind. Force in lbs.	Extent of Cloudy Sky.	Remarks.
In.	°		lbs.		
		NNW	0.5	⅛	Thunder and lightning in NNW; raining.
		,,	,,	,,	
		,,	,,	,,	Rain ceased.
		,,	,,	,,	
		,,	,,	,,	Thunder in W; lightning in NW.
		,,	,,	,,	Thunder in SW; raining.
		,,	,,	,,	
		,,	,,	,,	Lightning in SSE.
29.650	82.8	SSW	0.2	⅛	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast with ∿; lightning in SE.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Thunder in N; lightning thereabout.
		,,	,,	,,	
		,,	,,	,,	Thunder in NNW; lightning in N.
		,,	,,	,,	
29.665	82.9	,,	,,	,,	Thunder and lightning in N and NW.
29.596	81.6	S b E	1.5	⅛	
		,,	,,	,,	
		,,	,,	,,	Overcast; raining.
		,,	,,	,,	
		,,	,,	,,	
		,,	1.0	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Overcast with ∿; raining now and then.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
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EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
18th June.	From 12h to 12h 36m P. M.	Neg.	Out of Scale.	Out of Scale.	2	Inst.	12.32	0.02	1 in 1	
		,,	,,	,,	2	,,	.33	.02	1 ,, 1	
		,,	,,	30	0	,,	.34		Sparks.	
		,,	,,	35	0	,,	.36		Sparks.	
19th June.	From 5h 3m to 5h 13m* P. M.	Neg.	Out of Scale.	Out of Scale.	8	Inst.	5.03	0.07	3 in 2	5.03
		,,	,,	,,	8	,,	.04	.06	1 ,, 1	
		,,	,,	,,	4	,,	.05	.04	1 ,, 1	
		,,	,,	,,	4	,,	.06	.03	3 ,, 2	
		,,	,,	,,	6	,,	.07	.06	3 ,, 2	
		,,	,,	,,	5	,,	.08	.05	1 ,, 1	
		,,	,,	,,	4	,,	.09	.04	2 ,, 3	
		,,	,,	,,	5	,,	.10	.05	1 ,, 1	
		,,	,,	,,	5	,,	.11	.05	1 ,, 1	
		,,	,,	,,	6	,,	.13	.06	1 ,, 1	
23rd June.	From 7h 10m to 7h 17m P. M.	Neg.	Out of Scale.	Out of Scale.	7	Inst.	7.10	0.03	1 in 1	7.10
		,,	,,	,,	7	,,	.13	.03	1 ,, 1	
		,,	,,	,,	5	,,	.14	.02	1 ,, 3	
		,,	,,	,,	5	,,	.15	.02	1 ,, 3	
		,,	,,	42	0	0.04	.17			
	A single instance.	,,	,,	Out of Scale.	3	Inst.	11.05	.02	1 ,, 1	
1st Aug.	From 1h 3m to 2h 30m P. M.	Neg.	Out of Range.	Out of Range.	4	Inst.	1.03	0.03	1 in 1	
		,,	,,	,,	4	,,	.18	.07	1 ,, 1	
		,,	,,	,,	6	,,	.19	.08	1 ,, 2	
		,,	,,	,,	0 to 6	,,	.20	.05	3 ,, 1	
		,,	,,	,,	0 ,, 6	,,	.21	.05	2 ,, 1	
		,,	,,	,,	0 ,, 6	,,	.22	.05	2 ,, 1	
		,,	,,	,,	8	,,	.24	.06	3 ,, 1	
		,,	,,	,,	8	,,	.25	.05	2 ,, 1	
		,,	,,	,,	7	,,	.27	.05	1 ,, 1	
		,,	,,	,,	6	,,	.28	.06	1 ,, 1	
		,,	,,	,,	7	,,	.29	.06	2 ,, 1	
		,,	,,	,,	7	,,	.30	.06	3 ,, 1	
		,,	,,	,,	7	,,	.31	.06	2 ,, 1	
		,,	,,	,,	8	,,	.32	.05	1 ,, 1	
		,,	,,	,,	7	,,	.33	.05	2 ,, 1	
		,,	,,	,,	7	,,	.34	.05	2 ,, 1	
		,,	,,	,,	7	,,	.35	.05	1 ,, 1	
		,,	,,	,,	8	,,	.38	.06	2 ,, 1	
		,,	,,	,,	8	,,	.39	.05	2 ,, 3	
		,,	,,	,,	8	,,	.41	.06	3 ,, 2	
		,,	,,	,,	10	,,	.44	.07	2 ,, 1	
		,,	,,	,,	10	,,	.45	.07	3 ,, 1	
		,,	,,	,,	11	,,	.46	.08	2 ,, 1	
		,,	,,	,,	12	,,	.47	.08	2 ,, 1	
		,,	,,	,,	12	,,	.48	.09	2 ,, 1	
		,,	,,	,,	10	,,	.50	.09	1 ,, 1	
		,,	,,	,,	10	,,	.52	.09	2 ,, 1	
		,,	,,	,,	10	,,	.54	.09	3 ,, 1	
		,,	,,	,,	10	,,	.56	.09	1 ,, 1	
		,,	,,	,,	10	,,	.58	.09	2 ,, 1	
		,,	,,	,,	9	,,	2.00	.08	1 ,, 1	
		,,	,,	,,	8	,,	.02	.08	2 ,, 1	

* The Instruments was afterwards slightly affected at each flash of lightning but no sooner the lightning disappeared, the Electrometer was found dead in its movements.

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind. Direction.	Wind. Force in lbs.	Extend of Cloudy Sky.	Remarks.
In.	°		lbs.		
		S b E.	1.0	8/8	Overcast with ∿ı; raining now and then.
		,,	,,	,,	
		,,	,,	,,	
29.585	82.7	,,	,,	,,	
29.600	80.3	S	0.2	8/8	Overcast with ∿ı; drizzling rain.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
29.537	79.0	S	0.1	8/8	Overcast with ∿ı, moving E.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Lightning and thunder but once noticed in NE.
29.615	76.2	NW	1.0	8/8	Overcast; heavy showers of rain.
		NW b W	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		WNW	0.4	,,	Lightning in SE.
		,,	,,	,,	Heavy showers of rain falling.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	Lightning in SE of zth.
		,,	,,	,,	Overcast; raining.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
29.691	75.8	,,	,,	,,	Overcast; raining lightly.

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
1st Aug.	From 1h 3m to 2h 30m P. M.	Neg.	Out of Range.	Out of Range.	8	Inst.	2.04	0.08	2 in 1	
		,,	,,	,,	8	,,	.06	.08	3 ,, 1	
		,,	,,	,,	8	,,	.08	.08	3 ,, 1	
		,,	,,	,,	12	,,	.13	.10	2 ,, 1	
		,,	,,	,,	12	,,	.14	.10	2 ,, 1	
		,,	,,	,,	12	,,	.16	.10	3 ,, 1	
		,,	,,	,,	12	,,	.18	.10	3 ,, 1	
		,,	,,	,,	12	,,	.20	.10	3 ,, 1	
		,,	,,	,,	12	,,	.22	.11	3 ,, 1	2.22
		,,	,,	,,	12	,,	.24	.11	3 ,, 1	
		,,	,,	,,	8	,,	.27	.07	2 ,, 3	
		,,	,,	,,	8	,,	.29	.07	1 ,, 1	
10th Oct.	From 1h 29m to 1h 38m A. M.	Neg.	Out of Range.	Out of Range.	3	Inst.	1.29	0.01	1 in 1	
		,,	,,	,,	3	,,	.35	.01	1 ,, 1	
		,,	,,	,,	4	,,	.36	.02	1 ,, 1	
		,,	,,	50		,,	.38			
16th Oct.	From 2h 50m to 8h 10m P. M.	Neg.	Out of Range.	Out of Range.	7	Inst.	7.50	0.07	2 in 1	
		,,	,,	,,	7	,,	.55	.09	2 ,, 1	
		,,	,,	,,	8	,,	8.00	.08	1 ,, 2	8.00
		,,	,,	,,	7	,,	.10	.02	1 ,, 2	
19th Oct.	From 7h 18m to 9h 28m P. M.	Neg.	Out of Range.	Out of Range.	2	Inst.	7.18	0.04	1 in 1	
		,,	,,	,,	3	,,	.19	.05	1 ,, 1	
		,,	,,	,,	2	,,	.20	.04	1 ,, 1	
		,,	,,	,,	2	,,	.21	.03	1 ,, 1	
		,,	,,	,,	4	,,	.23	.07	2 ,, 1	
		,,	,,	,,	4	,,	.24	.05	1 ,, 1	
		,,	,,	,,	5	,,	.25	.07	1 ,, 1	
		,,	,,	,,	5	,,	.26	.07	2 ,, 1	
		,,	,,	,,	6	,,	.26	.08	2 ,, 1	
		,,	,,	,,	6	,,	.27	.09	2 ,, 1	
		,,	,,	,,	6	,,	.28	.10	2 ,, 1	
		,,	,,	,,	6	,,	.30	.10	2 ,, 1	
		,,	,,	,,	4	,,	.31	.07	2 ,, 1	
		,,	,,	,,	6	,,	.32	.10	3 ,, 1	
		,,	,,	,,	6	,,	.33	.10	1 ,, 1	
		,,	,,	,,	4	,,	.35	.10	1 ,, 1	
		,,	,,	,,	4	,,	.39	.06	1 ,, 1	
		,,	,,	,,	4	,,	.45	.06	1 ,, 1	
		,,	,,	,,	4	,,	.46	.07	2 ,, 1	
		,,	,,	,,	5	,,	.47	.07	3 ,, 1	
		,,	,,	,,	5	,,	.48	.07	3 ,, 1	
		,,	,,	,,	6	,,	.49	.09	1 ,, 1	
		,,	,,	,,	5	,,	.50	.09	2 ,, 3	
		,,	,,	,,	6	,,	.51	.10	1 ,, 1	
		,,	,,	,,	6	,,	.52	.10	2 ,, 1	
		,,	,,	,,	7	,,	.54	.10	1 ,, 1	
		,,	,,	,,	5	,,	.58	.10	2 ,, 1	
		,,	,,	,,	6	,,	8.00	.09	1 ,, 1	
		,,	,,	,,	4	,,	.02	.07	1 ,, 1	
		,,	,,	,,	4	,,	.03	.05	1 ,, 1	
		,,	,,	,,	4	,,	.10	.05	1 ,, 1	
		,,	,,	,,	5	,,	.11	.06	2 ,, 1	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind, Direction.	Wind, Force in lbs.	Extent of Cloudy Sky.	Remarks.
In.	°		lbs.		
		WNW	0.4	8/8	Overcast; raining lightly.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
29.590	76.5	,,	,,	,,	
		Calm.	0.0	8/8	At about 12h. 30m. the force of wind was about 2lbs. and rain was falling in torrents, but after an hour the wind became calm; overcast; raining; thunder and lightning in NW.
29.899	76.0	,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		ESE	0.8	8/8	Overcast with ∿ı; lightning continually observed.
		,,	1.0	,,	
29.868	79.0	,,	1.0	,,	
		,,	1.5	,,	
29.876	81.5	E b S	0.1	8/8	Overcast with ∿ı; continuous lightning in N and NE; thunder heard in SE; light drizzling rain; a break in W.
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		E	,,	,,	
		,,	,,	,,	
		NNE	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		N	0.3	,,	Clouded as before; lighining, rain, and thunder.
		NNW	,,	,,	
		N	,,	,,	
		NNE	,,	,,	
		N	,,	,,	
		NNE	,,	,,	
		N	,,	,,	
		,,	0.5	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	0.4	,,	Overcast; raining lightly; lightning in SE.
29.878	77.0	,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	
		,,	,,	,,	

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Date.	Bombay Mean Solar Time, or Limits of Time, 1857.	Sign of Electricity by Gold L. El.	Readings of Electrometer. Volta (1).	Volta (2).	Henly.	Time of Recovery after Discharge.	Ronald's Spark Measure. Time of Observation or Occurrence of Spark.	Length of Spark.	Corresponding frequency.	Time of Maximum Tension.
			Sc. Div.	Sc. Div.	°	M. S.	H. M. P. M.	In.	Sp. Sec.	H. M.
19th Oct.	From 7h 18m to 9h 28m P. M.	Neg.	Out of Range.	Out of Range.	6	Inst.	8.12	0.06	2 in 1	
		,,	,,	,,	8	,,	.14	.10	1 ,, 1	
		,,	,,	,,	8	,,	.15	.10	1 ,, 1	
		,,	,,	,,	6	,,	.17	.09	2 ,, 3	
		,,	,,	,,	6	,,	.19	.09	3 ,, 4	
		,,	,,	,,	4	,,	.21	.07	2 ,, 3	
		,,	,,	,,	7	,,	.23	.08	1 ,, 1	
		,,	,,	,,	9	,,	.24	.10	1 ,, 1	
		,,	,,	,,	10	,,	.26	.12	2 ,, 1	
		,,	,,	,,	10	,,	.27	.13	2 ,, 1	
		,,	,,	,,	14	,,	.28	.14	2 ,, 3	
		,,	,,	,,	11	,,	.30	.15	2 ,, 1	
		,,	,,	,,	8	,,	.32	.10	3 ,, 1	
		,,	,,	,,	8	,,	.35	.09	1 ,, 1	
		,,	,,	,,	10	,,	.38	.11	2 ,, 3	
		,,	,,	,,	6	,,	.41	.07	1 ,, 1	
		,,	,,	,,	7	,,	.43	.09	2 ,, 3	
		,,	,,	,,	12	,,	.47	.14	2 ,, 3	
		,,	,,	,,	14	,,	.49	.15	2 ,, 3	
		,,	,,	,,	16	,,	.51	.15	3 ,, 1	
		,,	,,	,,	10	,,	.54	.17	1 ,, 1	
		,,	,,	,,	18	,,	.57	.16	1 ,, 1	
		,,	,,	,,	14 to 20	,,	.59	.17	1 ,, 1	8.59
		,,	,,	,,	10	,,	9.01	.11	1 ,, 1	
		,,	,,	,,	10	,,	.03	.12	1 ,, 1	
		,,	,,	,,	6	,,	.05	.07	1 ,, 1	
		,,	,,	,,	10	,,	.07	.11	3 ,, 1	
		,,	,,	,,	14	,,	.09	.15	2 ,, 1	
		,,	,,	,,	15 to 21	,,	.13	.16	3 ,, 1	
		,,	,,	,,	10 ,, 16	,,	.15	.13	2 ,, 1	
		,,	,,	,,	12	,,	.17	.14	1 ,, 2	
		,,	,,	,,	13	,,	.19	.15	1 ,, 1	
		,,	,,	,,	10	,,	.23	.10	1 ,, 1	
		,,	,,	,,	2	,,	.26	.05	1 ,, 2	
		,,	,,	,,	1	,,	.28	.02	1 ,, 3	
21st Oct.	From 6h 42m to 7h 20m P. M.	Neg.	Out of Range.	Out of Range.	10	Inst.	6.42	0.08	1 in 2	
		,,	,,	,,	12	,,	.45	.10	2 ,, 3	
		,,	,,	,,	10	,,	.48	.10	1 ,, 3	
		,,	,,	,,	14	,,	.51	.12	2 ,, 3	
		,,	,,	,,	16	,,	.57	.14	1 ,, 2	
		,,	,,	,,	16	,,	7.00	.15	1 ,, 2	
		,,	,,	,,	16	,,	.03	.15	1 ,, 2	7.03
		,,	,,	,,	14	,,	.06	.12	1 ,, 2	
		,,	,,	,,	10	,,	.08	.08	1 ,, 1	
		,,	,,	,,	6	,,	.10	.05	1 ,, 1	
		,,	,,	,,	3	,,	.13	.03	1 ,, 1	
		,,	,,	,,	4	,,	.15	.03	1 ,, 2	
		,,	,,	,,	5	,,	.18	.05	2 ,, 1	
		,,	,,	,,	12	,,	.19	.10	1 ,, 2	
		,,	,,	75		,,	.20			

EXTRAORDINARY ELECTROMETER OBSERVATIONS, 1857.

Barometer corrected to 32° Fahr.	Air Thermometer.	Wind. Direction.	Wind. Force in lbs.	Extent of Cloudy Sky.	Remarks.
In.	°		lbs.		
		N	0.4	8/8	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Overcast; raining lightly; lightning in SE.
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Raining lightly; lightning in SE.
		"	"	"	
		"	"	"	Overcast; raining; lightning in S.
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Overcast; raining.
		"	"	"	
29.900	76.8	"	"	"	
		"	"	"	
		"	0.3	"	Overcast; lightning in WSW.
		"	"	"	
		"	"	"	
		"	"	"	Overcast; raining.
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Lightning in SE.
		"	"	"	
		"	"	"	
29.870	84.0	Calm.	0.0	8/8	
		"	"	"	Overcast; lightning in S and SW; breaks in W and NW.
		"	"	"	
		"	"	"	
		"	"	"	Lightning in SW.
29.891	82.0	"	"	"	
		"	"	"	
		"	"	"	Overcast; raining; lightning in SW and E.
		"	"	"	
		"	"	"	
		"	"	"	
		"	"	"	Overcast.
		"	"	"	
		"	"	"	
		"	"	"	

BOMBAY MAGNETICAL OBSERVATORY.

ABSTRACTS OF THE RESULTS

OF THE

METEOROLOGICAL OBSERVATIONS.

1857.

BOMBAY METEOROLOGICAL OBSERVATIONS.

METEOROLOGICAL RESULTS.

The following Meteorological elements are comprised under this head :—

1. Barometric Pressure.
2. Temperature of the Air and Ground.
3. Hygrometric State of the Air.
4. Direction and Force of Wind.
5. State of the Weather.

Barometric Pressure.—This element was determined by means of two Standard Barometers (Nos. 58 and 48) by Newman, which were on all occasions observed simultaneously throughout the year. The difference between the Scale Readings of both Barometers is 0·013 in., which remains nearly constant, consequently the observations of Barometer No. 48 are not printed, nor any results found from them, except the mean monthly values of the same in Table I. of Meteorological Introduction, which will show, at a glance, the movements of them both. Barometer No. 48 serves only as a check on the observations of Barometer No. 58, whose results are fairly drawn out.

Temperature of the Air and Ground.—This element was determined by means of six Thermometers, which were placed in situations differing from one another, in order that all the changes which the Temperature undergoes, arising from different situations, might be accurately determined.

Hygrometric State of the Air.—Under this head are classed the Temperature of Evaporation; Temperature of Dew-Point; Pressure of Moisture; Humidity of Air; Weight of a cubic foot of Air; Weight of Water in a cubic foot of Air; Water required for complete Saturation of a cubic foot of Air; Quantity of Water actually evaporated in the Atmosphere. Of all these, the only one actually observed, has been the Temperature of Evaporation (Wet Bulb), and the others were calculated by tables given in the Introduction to this Part.

Direction and Force of Wind.—This element has been deduced from the self-registered curves of Osler's Wind Anemometer and Lynd's Wind Gauge.

State of the Weather.—Under this head are set down the prevailing Clouds in different seasons; the portion of the cloudy Sky at particular times; fall of Rain; and all Storms, such as lightning, thunder, and wind.

STANDARD BAROMETER.

The following Results of Barometric heights have been deduced from the observations of Barometer No. 58; the other Barometer (No. 48), which showed simultaneous curves with the former, is dispensed with as unnecessary.

No days were considered as abnormal in reducing the Barometric Results of the Year 1857.

TABLE I.—*Mean Height of Barometer, corrected for Temperature for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1	29·891		29·822	29·795	29·676		29·659	29·627	29·778	29·879		29·962
2	·937	29·868		·795	·723	29·665	·619		·774	·889	29·828	·995
3	30·010	·876	·850	·812		·688	·627	·695	·783	·890	·860	·975
4		·899	·842	·801	·708	·691	·624	·701	·775		·877	·972
5	29·984	·887	·851		·756	·692			·769	·890	·862	30·000
6	30·039	·898	·857	·846	·755	·709	·595	·634		·884	·840	
7	·003	·931	·834	·856	·761		·595	·640	·755	·867	·847	29·982
8	29·962			·871	·717	·691	·629	·646	·774	·867		·966
9	·966	·878	·823	·850	·705	·677	·678		·777	·878	·932	·987
10	·957	·925	·837			·669	·673	·633	·763	·890	·904	·989
11		·919		·833	·789	·720	·668	·576	·754		·894	·968
12	·980	·895	·845		·809	·687		·584	·780	·836	·946	·939
13	·994	·874	·924	·800	·820	·601	·671	·632		·806	·976	
14	·994	·880	·942	·827	·825		·656	·663	·798	·874	·977	·946
15	·941			·861	·805	·643	·647		·835	·875		·990
16	·938	·836	·868	·807	·727	·660	·644		·834	·816	·984	·969
17	·929	·847	·855	·776		·595	·645	·632	·783		·993	·980
18		·884	·841	·809	·784	·574	·653	·645	·756		·969	·970
19	·902	·893	·809		·779	·615		·669	·745	·865	·962	·945
20	·886	·888	·802	·803	·752	·613	·711	·655		·848	·970	
21	·896	·868	·827	·765	·729		·698	·653	·777	·861	·942	·961
22	·884			·717	·736	·545	·660	·685	·823	·880		·973
23	·882	·812	·781	·733	·742	·541	·639		·871	·869	·911	·958
24	·890	·848	·771	·743		·559	·661	·766	·875	·838	·931	·960
25		·855	·779	·755	·715	·560	·680	·758	·903		·911	
26	·885	·825	·836		·686	·624		·756	·938	·836	·847	30·019
27	·896	·782	·846	·756	·627	·676	·664	·761		·850	·875	
28	·868	·786	·753	·752	·601		·640	·779	·884	·825	·933	29·995
29	·875			·716	·673	·645	·620	·770	·886	·803	·979	30·030
30	·856		·770	·678	·691	·664	·639	·784	·894	·826		·032
31	·876		·813		·693		·633			·843		·031

TABLE II.—*Showing the Number of Instances in which the Difference between the Mean Daily Heights of Barometer was within certain limits during the Year* 1857.

The difference between the Mean Daily Reading of two consecutive days.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole number of cases in the Year.
in. in.													
Greater than 0·01 and less than 0·02	6	3	8	9	4	6	5	5	6	10	3	6	71
„ 0·02 „ 0·03	5	4	3	2	8	3	5	1	3	3	7	9	53
„ 0·03 „ 0·04	1	4	2	7		2	2	3	3	2	3	2	31
„ 0·04 „ 0·05	2	3	2	2	2	2	2	1	2	1	1	1	21
„ 0·05 „ 0·06	2	2	1	1	3	2	1	1	2	2	2	1	20
„ 0·06 „ 0·07						3		2		1	1		7
„ 0·07 „ 0·08	1		2		1								4
„ 0·08 „ 0·09					1	1		1			1		4
„ 0·09 „ 0·10			1										1
„ 0·10 „ 0·20													

It appears from this Table, that there were 212 instances in which the difference between the mean daily heights of Barometer of two consecutive days was greater than 0·01 in.

There were 155 in which the difference was greater than 0·01 and less than 0·05 in.

„ 57 „ „ „ 0·05 „ „ 0·10 in.

In no case was the difference greater than 0·10 in.

TABLE III.—*Showing the Greatest and Least Daily Heights of Barometer, and the Days on which they occurred.*

Months, 1857.	Mean Daily Heights of Barometer.		Difference.	The Day on which they occurred.	
	Greatest.	Least.		Greatest.	Least.
	in.	in.	in.	D.	D.
January	30·039	29·856	0·183	6	30
February	29·931	·782	·149	7	27
March	·942	·770	·172	14	30
April	·871	·678	·193	8	30
May	·825	·601	·224	14	28
June	·720	·541	·179	11	23
July	·711	·595	·116	20	6 & 7
August	·784	·576	·208	30	11
September	·938	·745	·193	26	19
October	·890	·803	·087	3, 5, & 10	29
November	·993	·840	·153	17	6
December	30·032	·939	·093	30	12

It appears from this Table, that the highest as well as the lowest heights of Barometer were gradually decreasing from January to July, and then were increasing to the close of the year. The time of the lowest height occurs about the close of the month, and the time of highest height of Barometer happens about the middle or beginning of the month. The differences between the extreme mean daily heights of Barometer were large in May and August, and small in October and December.

TABLE IV.—*Showing the Highest and Least Differences of the two consecutive Daily Means in each Month.*

Months, 1857.	Difference between the Mean Daily Reading of two consecutive Days.		Difference.	The Day on which they occurred.	
	Greatest.	Least.		Greatest.	Least.
	in.	in.	in.	between	between
January	0·073	0·000	0·073	2 & 3	13 & 14
February.....	·056	·000	·056	21 & 23	19 & 20
March.....	·093	·006	·087	27 & 28	5 & 6
April	·054	·000	·054	15 & 16	1 & 2
May.....	·084	·001	·083	9 & 11	5 & 6
June	·086	·001	·085	12 & 13	4 & 5 / 24 & 25
July.....	·058	·000	·058	18 & 20	6 & 7
August.....	·081	·002	·079	22 & 24	20 & 21 / 25 & 26
September	·054	·001	·053	26 & 28	15 & 16
October	·068	·000	·068	13 & 14	3 & 4 / 7 & 8
November	·085	·001	·084	7 & 9	13 & 14
December	·059	·001	·058	24 & 26	30 & 31

The greatest difference between the mean daily heights of Barometer on two consecutive days occurred between the 27th and 28th March. It also shows that the range of differences was smaller in February, April, July, September, and December, than in any other months.

TABLE V.—*Showing, for the Year* 1857, *the Hours of Bombay Civil Time at which the Greatest and Least Reading of Barometer occurred in each Month in the simple hourly observations.*

Months, 1857.	The Reading of Barometer.		Range.	The Time at which Barometer Reading was	
	Greatest.	Least.		Greatest.	Least.
	in.	in.	in.	D. H.	D. H.
January	30·104	29·812	0·292	6 9 A. M.	28 4 P. M.
February.....	·002	·721	·281	7 10 „	27 5 „
March.....	·025	·667	·358	14 9 „	28 4 „
April	29·942	·602	·340	8 9 „	30 4 „
May.....	·886	·554	·332	14 9 „	27 4 „
June.....	·758	·507	·251	11 9 „	23 4 A. M.
July.....	·751	·554	·197	20 10 P. M.	7 4 „
August.....	·830	·514	·316	30 10 A. M.	11 4 P. M.
September	·998	·686	·312	26 9 „	19 4 „
October	·957	·731	·226	22 10 „	16 4 „
November	30·074	·780	·294	17 9 „	6 3 „
December.....	·105	·868	·237	29 9 „	12 4 „

During the year 1857, the Barometer has fluctuated between 30·11 and 29·50 in. The highest readings of Barometer, in each month, were above 29·75 and below 30·11 in. The lowest readings were above 29·50 and below 29·87 in.

In winter months, the Barometer was generally high, and read above 29·66 in., the highest readings being on the 29th of December and 6th of January. The lowest reading of Barometer occurred on the 23rd June, at 4 A. M. In summer months the Barometer was generally low, and read between 29·94 and 29·50.

The extreme annual difference of two Barometer readings, in simple hourly observations, was 0·598 in., being the difference between the highest and lowest readings during this year, and about 0·076 in. lower than the normal mean value.

TABLE VI.—*Showing, for each Month, the Mean Height of Standard Barometer, and its Excess above the Mean of the last Eleven Years.*

Months, 1857.	Mean Height of Barometer.	Excess above the Mean of the last eleven Years.	FOR SEASONS.	
	in.	in.		in.
January	29·930	−0·005		
February	·869	− ·037	Mean of { Jan. Feb. Mar. / Oct. Nov. Dec. } or Winter ..	29·898
March	·831	− ·028		
April	·790	− ·002		
May	·735	− ·011	Mean of { Apr. May, June, / July, Aug. Sept. } or Summer..	29·718
June.....	·640	− ·094		
July.....	·649	+ ·007	Mean of the year	29·808
August.....	·681	− ·034		
September	·811	+ ·037	Greatest monthly mean, in December	29·981
October	·857	+ ·034	Least monthly mean, in June.....	29·640
November	·918	+ ·022		
December.....	·981	+ ·054	Difference	0·341

The mean monthly readings of Barometer in each month of this year did not fluctuate more than 0·05 in. from the normal mean, except in June, when the difference was about 0·10 in. between the monthly and normal means.

TABLE VII.—*Range of Standard Barometer, corrected for Temperature, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1	0·118		0·137	0·140	0·135		0·076	0·108	0·076	0·092		0·117
2	·109	0·165		·133	·119	0·092	·094		·071	·088	0·106	·115
3	·119	·103	·130	·124		·117	·075	·106	·093	·107	·126	·138
4		·119	·150	·167	·120	·089	·085	·088	·073		·128	·106
5	·107	·142	·114		·115	·075			·070	·109	·125	·117
6	·115	·127	·110	·132	·103	·062	·079	·082		·133	·121	
7	·125	·119	·145	·107	·122		·074	·081	·083	·118	·085	·122
8	·109			·123	·144	·103	·091	·074	·086	·140		·133
9	·134	·099	·112	·133	·081	·100	·087		·083	·129	·114	·127
10	·136	·122	·113			·091	·052	·091	·069	·124	·130	·122
11		·149		·108	·095	·092	·076	·105	·077		·100	·130
12	·131	·157	·128		·091	·159		·127	·098	·116	·112	·136
13	·109	·164	·118	·133	·113	·104	·065	·084		·101	·110	
14	·111	·128	·146	·111	·105		·060	·104	·084	·123	·138	·118
15	·123			·121	·103	·092	·069		·097	·133		·111
16	·126	·114	·154	·141	·092	·093	·061		·110	·144	·120	·136
17	·125	·133	·144	·099		·103	·088	·094	·111		·144	·127
18		·141	·147	·112	·119	·117	·083	·096	·079		·112	·131
19	·126	·154	·150		·115	·119		·079	·108	·138	·142	·124
20	·137	·117	·116	·126	·119	·092	·087	·071		·126	·143	
21	·119	·154	·121	·145	·133		·082	·078	·100	·102	·152	·127
22	·116			·121	·140	·072	·076	·103	·098	·118		·119
23	·115	·153	·179	·111	·125	·063	·066		·094	·137	·138	·132
24	·129	·138	·143	·095		·086	·091	·088	·079	·140	·119	·114
25		·135	·122	·129	·114	·078	·073	·075	·091		·123	
26	·133	·158	·120		·123	·097		·058	·102	·142	·119	·131
27	·127	·148	·163	·135	·123	·068	·085	·061		·136	·114	
28	·121	·147	·154	·131	·099		·073	·072	·087	·128	·099	·123
29	·107			·143	·099	·053	·099	·088	·103	·123	·125	·150
30	·102		·130	·139	·085	·081	·095	·089	·118	·133		·140
31	·133		·110		·092		·091			·134		·124

TABLE VIII.—*Showing the Number of Instances in which the Daily Range of Barometer was within Certain Limits.*

Daily Range of Barometer in 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole Number of Cases in the Year.
in. in.													
Greater than 0·05 and less than 0·06						1	1	1					3
„ 0·06 „ 0·07						3	5	1	1				10
„ 0·07 „ 0·08						4	8	6	7				25
„ 0·08 „ 0·09					2	3	7	7	5	1	1		26
„ 0·09 „ 0·10		1		2	6	6	6	3	6	1	1		32
„ 0·10 „ 0·11	7	1		2	3	4		5	4	4	2	1	33
„ 0·11 „ 0·12	7	4	7	3	7	3			3	3	7	7	51
„ 0·12 „ 0·13	8	3	4	6	5			1		6	7	8	48
„ 0·13 „ 0·14	5	3	3	7	2					7	3	8	38
„ 0·14 „ 0·15		5	5	4	2					4	3	1	24
„ 0·15 „ 0·16		5	4			1					1	1	12
„ 0·16 „ 0·17		2	1	1									4
„ 0·17 „ 0·18			1										1
„ 0·18 „ 0·19													
„ 0·19 „ 0·20													
„ 0·20													

It appears from this Table that there were 307 instances in which the difference of extreme daily reading of Barometer, or the range of Barometer, was greater than 0·05 in. and less than 0·19 in. There were in this year about—

96 days in which the range was greater than 0·05 in. and less than 0·10 in.
194 days ditto ditto 0·10 in. ditto 0·15 in.
17 days ditto ditto 0·15 in. ditto 0·19 in.

In no case the range was greater than 0·19 in.

TABLE IX.—*Showing the Greatest and Least Range of Barometer in each Month.*

Months, 1857.	Daily Range of Barometer.		Difference.	The Day on which the daily Range was	
	Greatest.	Least.		Greatest.	Least.
	in.	in.	in.	D.	D.
January	0·137	0·102	0·035	20	30
February	·165	·099	·066	2	9
March	·179	·110	·069	23	6 & 31
April	·167	·095	·072	4	24
May	·144	·081	·063	8	9
June	·159	·053	·106	12	29
July	·099	·052	·047	29	10
August	·127	·058	·069	12	26
September	·118	·069	·049	30	10
October	·144	·088	·056	16	2
November	·152	·085	·067	21	7
December	·150	·106	·044	29	4

The ranges of Barometer were higher in winter than in summer. The difference between the highest and lowest ranges in the year was 0·127, being about 0·001 in. higher than the mean difference of the last three years.

TABLE X.—*Showing the Mean Monthly Ranges of Barometer.*

Months, 1857.	Mean Range of Barometer.		FOR SEASONS.	
	Monthly Range.	Excess above the Annual Mean.		
	in.	in.		in.
January	0·120	0·007		
February	·137	·024		
March	·134	·021		
April	·126	·013		
May	·112	– ·001	Winter	0·128
June	·091	– ·022	Summer	0·098
July	·079	– ·034		
August	·088	– ·025	Annual mean	0·113
September	·090	– ·023		
October	·124	·011		
November	·127	·014		
December	·126	·013		

The mean range of Barometer was decreasing from March to July, and afterwards increasing to the close of the year: this shows that the Barometer fluctuates more in its movements in the rainy months than in any other months of the year.

TABLE XI.—*Mean Heights of Standard Barometer, corrected for Temperature, in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
Midnight.	29·931	29·879	29·833	29·804	29·738	29·642	29·659	29·689	29·811	29·862	29·913	29·980	Midnight.
1 A. M.	·920	·865	·818	·788	·728	·626	·640	·671	·796	·845	·903	·963	1 A. M.
2 „	·906	·849	·806	·778	·717	·616	·626	·658	·785	·838	·893	·953	2 „
3 „	·899	·840	·800	·771	·713	·610	·619	·651	·781	·834	·891	·945	3 „
4 „	·902	·838	·803	·772	·717	·611	·619	·652	·782	·838	·895	·948	4 „
5 „	·911	·845	·820	·784	·722	·624	·625	·656	·793	·855	·904	·964	5 „
6 „	·928	·865	·841	·802	·744	·641	·641	·670	·806	·871	·928	·985	6 „
7 „	·952	·893	·863	·825	·765	·659	·657	·688	·825	·891	·951	30·009	7 „
8 „	·978	·917	·889	·844	·779	·668	·670	·704	·845	·908	·973	·036	8 „
9 „	·995	·937	·902	·853	·791	·676	·679	·716	·852	·921	·987	·050	9 „
10 „	·993	·943	·901	·847	·783	·676	·681	·719	·853	·916	·980	·047	10 „
11 „	·977	·928	·886	·834	·777	·669	·696	·714	·844	·895	·959	·028	11 „
Noon.	·945	·900	·857	·809	·762	·659	·667	·701	·826	·868	·927	29·995	Noon.
1 P. M.	·918	·862	·827	·780	·736	·647	·656	·684	·805	·838	·897	·964	1 P. M.
2 „	·892	·832	·800	·754	·714	·633	·642	·669	·787	·815	·878	·942	2 „
3 „	·882	·815	·780	·739	·692	·621	·628	·655	·774	·801	·869	·930	3 „
4 „	·883	·812	·775	·728	·682	·611	·619	·648	·774	·800	·871	·931	4 „
5 „	·889	·818	·777	·732	·687	·610	·621	·652	·782	·812	·879	·942	5 „
6 „	·898	·828	·789	·750	·701	·616	·633	·664	·793	·824	·893	·957	6 „
7 „	·924	·847	·813	·765	·716	·662	·645	·675	·811	·846	·914	·979	7 „
8 „	·946	·869	·832	·785	·735	·647	·659	·686	·827	·869	·928	·996	8 „
9 „	·958	·887	·847	·803	·747	·655	·669	·702	·837	·880	·934	30·006	9 „
10 „	·957	·893	·847	·811	·754	·661	·677	·706	·840	·880	·936	·005	10 „
11 „	·946	·889	·845	·806	·748	·656	·670	·705	·830	·871	·926	29·994	11 „

TABLE XII.—*Showing, for the Year* 1857, *the Hours of Bombay Civil Time at which the Mean Hourly Height of Standard Barometer, corrected in each Month, was at its Maximum and Minimum.*

Months, 1857.	The Mean Hourly Height of Barometer.				Mean Diurnal Range.	The Time at which the Mean Hourly Height of Barometer was at its			
	Morning.		Evening.			Morning		Evening	
	Maximum.	Minimum.	Maximum.	Minimum.		Maximum.	Minimum.	Maximum.	Minimum.
	in.	in.	in.	in.	in.	A. M.	A. M.	P. M.	P. M.
January	29·995	29·899	29·958	29·882	0·113	9	3	9	3
February	·943	·838	·893	·812	·131	10	4	10	4
March	·902	·800	·847	·775	·127	9	3	9 & 10	4
April	·853	·771	·828	·728	·125	9	3	10	4
May	·791	·713	·754	·682	·109	9	3	10	4
June	·676	·610	·661	·610	·066	9 & 10	3	10	5
July	·696	·619	·677	·619	·077	11	3 & 4	10	4
August	·719	·651	·706	·648	·071	10	3	10	4
September	·853	·781	·840	·774	·079	10	3	10	3 & 4
October	·921	·834	·880	·800	·121	9	3	9 & 10	4
November	·987	·891	·936	·869	·118	9	3	10	3
December	30·050	·945	30·006	·930	·120	9	3	9	3

It appears from this Table, that the first maximum, which happened after 9 A. M., or 10 A. M., was greater than the second maximum, which occurs generally at 10 P. M. The second minimum was smaller than the first minimum. The mean difference between the first maximum and second minimum is 0·105, which was exactly equal to the difference of last year.

TABLE XIII.—*Showing, for the Year* 1857, *the Mean Height of Standard Barometer, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	Mean Height of Barometer.		Mean Height.
	Summer.	Winter.	
	in.	in.	in.
Midnight.	29·724	29·900	29·812
1 A. M.	·708	·886	·797
2 „	·696	·874	·785
3 „	·691	·868	·780
4 „	·692	·871	·781
5 „	·701	·883	·792
6 „	·717	·903	·810
7 „	·736	·926	·831
8 „	·752	·950	·851
9 „	·761	·965	·863
10 „	·760	·963	·862
11 „	·756	·945	·851
Noon.	·737	·915	·826
1 P. M.	·718	·884	·801
2 „	·700	·860	·780
3 „	·685	·846	·765
4 „	·677	·845	·761
5 „	·681	·853	·767
6 „	·693	·865	·779
7 „	·707	·887	·797
8 „	·723	·906	·815
9 „	·735	·918	·826
10 „	·743	·919	·831
11 „	·736	·911	·823

FOR DAY AND NIGHT.

	in.
Mean of {6, 7, 8, 9, 10, 11 P. M. / Midnt. 1, 2, 3, 4, 5 A. M.} or Night ..	29·802
Mean of {6, 7, 8, 9, 10, 11 A. M. / Noon, 1, 2, 3, 4, 5 P. M.} or Day....	29·814
Mean	29·808

TIMES OF MEAN MAXIMUM AND MINIMUM.

A minimum at about 3 A. M.
A maximum at about 9 „
A minimum at about 4 P. M.
A maximum at about 10 „

The following particulars have been derived from Table XIII.:—

The time of the first minimum in Winter was	3 A. M.	and in Summer	3 A. M.
„ second minimum „	4 P. M.	„	4 P. M.
„ first maximum „	9 A. M.	„	9 A. M.
„ second maximum „	10 P. M.	„	10 P. M.
Extreme range of Barometer in Winter was.....	0·120 in.	and in Summer	0·085 in.
Range of the first maximum and first minimum was....	0·097 in.	„	0·070 in.
Range of the second maximum and second minimum was	0·074 in.	„	0 066 in.
Mean range of the first maximum and second minimum was	0·102 in.		

This Table also shows that the readings of Barometer at midnight, 6 A. M., 1 P. M., and 8 P. M. very nearly correspond with the mean height of Barometer of any day; and the readings at 10 P. M., 3 A. M., 9 A. M., and 4 P. M. differ most from the mean reading.

In the Results of the preceding years, 6 A. M. has been represented as best for finding the Mean Value from a single observation taken daily.

TABLE XIV.—*Mean Amount of Changes of Barometer, as obtained from Mean Hourly Value in each Month of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight & 1	−0·011	−0·014	−0·015	−0·016	−0·010	−0·016	−0·019	−0·018	−0·015	−0·017	−0·010	−0·017
1 & 2 A. M.	− ·014	− ·016	− ·012	− ·010	− ·011	− ·010	− ·014	− ·013	− ·011	− ·007	− ·010	− ·010
2 & 3 „	− ·007	− ·009	− ·006	− ·007	− ·004	− ·006	− ·007	− ·007	− ·004	− ·004	− ·002	− ·008
3 & 4 „	·003	− ·002	·003	·001	·004	·001	·000	·001	·001	·004	·004	·003
4 & 5 „	·009	·007	·017	·012	·005	·013	·006	·004	·011	·017	·009	·016
5 & 6 „	·017	·020	·021	·018	·022	·017	·016	·014	·013	·016	·024	·021
6 & 7 „	·024	·028	·022	·023	·021	·018	·016	·018	·019	·020	·023	·024
7 & 8 „	·026	·024	·026	·019	·014	·009	·013	·016	·020	·017	·022	·027
8 & 9 „	·017	·020	·013	·009	·012	·008	·009	·012	·007	·013	·014	·014
9 & 10 „	− ·002	·006	− ·001	− ·006	− ·008	·000	·002	·003	·001	− ·005	− ·007	− ·003
10 & 11 „	− ·016	− ·015	− ·015	− ·013	− ·006	− ·007	− ·005	− ·005	− ·009	− ·021	− ·021	− ·019
11 & Noon.	− ·032	− ·028	− ·029	− ·025	− ·015	− ·010	− ·009	− ·013	− ·018	− ·027	− ·032	− ·033
Noon & 1 P. M.	− ·027	− ·038	− ·030	− ·029	− ·026	− ·012	− ·011	− ·017	− ·021	− ·030	− ·030	− ·031
1 & 2 „	− ·026	− ·030	− ·027	− ·026	− ·022	− ·014	− ·014	− ·015	− ·018	− ·023	− ·019	− ·022
2 & 3 „	− ·010	− ·017	− ·020	− ·015	− ·022	− ·012	− ·014	− ·014	− ·013	− ·014	− ·009	− ·012
3 & 4 „	·001	− ·003	− ·005	− ·011	− ·010	− ·010	− ·009	− ·007	·000	− ·001	·002	·001
4 & 5 „	·006	·006	·002	·004	·005	− ·001	·002	·004	·008	·012	·008	·011
5 & 6 „	·009	·010	·012	·018	·014	·006	·012	·012	·011	·012	·014	·015
6 & 7 „	·026	·019	·024	·015	·015	·016	·012	·011	·018	·022	·021	·022
7 & 8 „	·022	·022	·019	·020	·019	·015	·014	·011	·016	·023	·014	·017
8 & 9 „	·012	·018	·015	·018	·012	·008	·010	·016	·010	·011	·006	·010
9 & 10 „	− ·001	·006	·000	·008	·007	·006	·008	·004	·003	·000	·002	− ·001
10 & 11 „	− ·011	− ·004	− ·002	− ·005	− ·006	− ·005	− ·007	− ·001	− ·010	− ·009	− ·010	− ·011
11 & Midnight.	− ·015	− ·010	− ·012	− ·002	− ·010	− ·014	− ·011	− ·016	− ·019	− ·009	− ·013	− ·014

TABLE XV.—*Showing, for the Year* 1857, *the Mean Change of Barometric Pressure between Consecutive Hours of Bombay Civil Time ; and the Character of Changes.*

Bombay Civil Time.	Mean Amount of Difference.		Character of Changes.	
	Summer.	Winter.	Summer.	Winter.
	in.	in.		
Midnight.	– 0·016	– 0·014	Large fall, except in May.	Large fall.
1 & 2 A. M.	– ·011	– ·011	Moderate fall.	,, ,,
2 & 3 ,,	– ·006	– ·006	Small fall.	Small fall.
3 & 4 ,,	·001	·003	Very small rise.	Small rise, except in February.
4 & 5 ,,	·008	·012	Moderate rise.	Moderate rise.
5 & 6 ,,	·017	·020	Large rise.	Large rise.
6 & 7 ,,	·019	·023	,, ,,	Very large rise.
7 & 8 ,,	·015	·024	,, ,,	,, ,,
8 & 9 ,,	·010	·015	Moderate rise.	Moderate rise.
9 & 10 ,,	– ·001	– ·002	Small rise, except in April and May.	Small fall, except in February.
10 & 11 ,,	– ·007	– ·018	Small fall, except in April.	Large fall.
11 & Noon.	– ·015	– ·030	Generally moderate fall.	Very large fall.
Noon & 1 P. M.	– ·019	– ·031	Large fall.	,, ,,
1 & 2 ,,	– ·018	– ·024	,, ,,	,, ,,
2 & 3 ,,	– ·015	– ·014	Moderate.	Moderate.
3 & 4 ,,	– ·008	– ·001	Moderate, except in September.	Rise at the beginning and end of the Season.
4 & 5 ,,	·004	·008	Small rise, except in June.	Small rise, except in October and Dec.
5 & 6 ,,	·012	·012	Moderate rise.	Moderate rise.
6 & 7 ,,	·015	·022	Large rise.	Large rise.
7 & 8 ,,	·016	·020	,, ,,	,, ,,
8 & 9 ,,	·012	·012	,, ,,	Moderate rise, except in November.
9 & 10 ,,	·006	·001	Small rise.	Small fall in Jan. and Dec.; small rise in Feb. and Nov.; steady in Mar. & Oct.
10 & 11 ,,	– ·006	– ·008	Small fall.	Moderate fall.
11 & Midnight.	– ·012	– ·010	Moderate fall, except in April.	,, ,,

TABLE XVI.—*Showing the Approximation to the Mean Height of Standard Barometer in each Month, from various Combinations, during the Year* 1857.

Months, 1857.	Combination of Observations taken at				Monthly Mean.	Differences of Combinations from the True Mean.			
	11 A. M. and 11 P. M.	2 A. M. and 9 P. M.	5 A. M. and 10 P. M.	8 A. M. and 4 P. M.		11 A. M. and 11 P. M.	2 A. M. and 9 P. M.	5 A. M. and 10 P. M.	8 A. M. and 4 P. M.
	in.	in.	in.	in.	in.	in.	in.	in.	in.
January	29·933	29·932	29·934	29·930	29·930	0·003	0·002	0·004	0·000
February ..	·877	·868	·869	·865	·869	·008	– ·001	·000	– ·004
March	·831	·826	·833	·832	·831	·000	– ·005	·002	·001
April	·797	·791	·798	·786	·790	·007	·001	·008	– ·004
May	·738	·732	·738	·730	·735	·003	– ·003	·003	– ·005
June	·641	·635	·642	·640	·640	·001	– ·005	·002	·000
July	·655	·648	·651	·645	·649	·006	– ·001	·002	– ·004
August	·688	·680	·681	·676	·681	·007	– ·001	·000	– ·005
September ..	·813	·811	·817	·809	·811	·002	·000	·006	– ·002
October	·858	·859	·867	·854	·857	·001	·002	·010	– ·003
November ..	·915	·914	·920	·922	·918	– ·003	– ·004	·002	·004
December ..	·978	·979	·985	·983	·981	– ·003	– ·002	·004	·002

It appears from this Table that these combinations differ but very little from the true mean of each month.

The combination of 11 A. M. and 11 P. M. was higher by about 0·003 in. than the true mean.

,, 2 ,, 9 ,, lower ,, 0·001 ,, ,, ,,

,, 5 ,, 10 ,, higher ,, 0·004 ,, ,, ,,

,, 8 ,, 4 ,, lower ,, 0·002 ,, ,, ,,

TABLE XVII.—*Excess of the Mean Hourly Height of Barometer above the Monthly Mean.*

Bombay Civil Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
Midnight.	0·001	0·010	0·002	0·014	0·003	0·002	0·010	0·008	0·000	0·005	− 0·005	− 0·001	Midnight.
1 A. M.	− ·010	− ·004	− ·013	− ·002	− ·007	− ·014	− ·009	− ·010	− ·015	− ·012	− ·015	− ·018	1 A. M.
2 „	− ·024	− ·020	− ·025	− ·012	− ·018	− ·024	− ·017	− ·023	− ·026	− ·019	− ·025	− ·028	2 „
3 „	− ·031	− ·029	− ·031	− ·019	− ·022	− ·030	− ·030	− ·030	− ·030	− ·023	− ·027	− ·036	3 „
4 „	− ·028	− ·031	− ·028	− ·018	− ·018	− ·029	− ·030	− ·029	− ·029	− ·019	− ·023	− ·033	4 „
5 „	− ·019	− ·024	− ·011	− ·006	− ·013	− ·016	− ·024	− ·025	− ·018	− ·002	− ·014	− ·017	5 „
6 „	− ·002	− ·004	·010	·012	·009	·001	− ·008	− ·011	− ·005	·014	·010	·004	6 „
7 „	·022	·024	·032	·035	·030	·019	·008	·007	·014	·034	·033	·028	7 „
8 „	·048	·048	·058	·054	·044	·028	·021	·023	·034	·051	·055	·055	8 „
9 „	·065	·068	·071	·063	·056	·036	·030	·035	·041	·063	·069	·069	9 „
10 „	·063	·074	·070	·057	·048	·036	·032	·038	·042	·059	·062	·066	10 „
11 „	·047	·059	·055	·044	·042	·029	·027	·033	·033	·038	·041	·047	11 „
Noon.	·015	·031	·026	·019	·027	·019	·018	·020	·015	·011	·009	·014	Noon.
1 P. M.	− ·012	− ·007	− ·004	− ·010	·001	·007	·007	·003	− ·006	− ·019	− ·021	− ·017	1 P. M.
2 „	− ·038	− ·037	− ·031	− ·036	− ·021	− ·007	− ·007	− ·012	− ·024	− ·042	− ·040	− ·039	2 „
3 „	− ·048	− ·054	− ·051	− ·051	− ·043	− ·019	− ·021	− ·026	− ·037	− ·056	− ·049	− ·051	3 „
4 „	− ·047	− ·057	− ·056	− ·062	− ·053	− ·029	− ·030	− ·033	− ·037	− ·057	− ·047	− ·050	4 „
5 „	− ·041	− ·051	− ·054	− ·058	− ·048	− ·030	− ·028	− ·029	− ·029	− ·045	− ·039	− ·039	5 „
6 „	− ·032	− ·041	− ·042	− ·040	− ·034	− ·024	− ·016	− ·017	− ·018	− ·033	− ·025	− ·024	6 „
7 „	− ·006	− ·022	− ·018	− ·025	− ·019	− ·008	− ·004	− ·006	·000	− ·011	− ·004	− ·002	7 „
8 „	·016	·000	·001	− ·005	·000	·007	·010	·005	·016	·012	·010	·015	8 „
9 „	·028	·018	·016	·013	·012	·015	·020	·021	·026	·023	·016	·025	9 „
10 „	·027	·024	·016	·021	·019	·021	·028	·025	·029	·023	·018	·024	10 „
11 „	·016	·020	·014	·016	·013	·016	·021	·024	·019	·014	·008	·013	11 „

TABLE XVIII.—*Mean Hourly Height of Barometer diminished by the Monthly Mean, as well as the Mean Diurnal Change for each Hour.*

Bombay Civil Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
Midnight.	− 0·002	+ 0·007	− 0·001	+ 0·011	0·000	− 0·001	+ 0·007	+ 0·005	− 0·003	+ 0·000	− 0·008	− 0·004	Midnight.
1 A. M.	+ ·001	+ ·007	− ·002	+ ·009	+ ·004	− ·003	+ ·002	+ ·001	− ·004	− ·001	− ·004	− ·007	1 A. M.
2 „	− ·001	+ ·003	− ·002	+ ·011	+ ·005	− ·001	+ ·006	·000	− ·003	+ ·004	− ·002	− ·005	2 „
3 „	− ·002	·000	− ·002	+ ·010	+ ·007	− ·001	− ·001	− ·001	− ·001	+ ·006	+ ·002	− ·007	3 „
4 „	·000	− ·003	·000	+ ·010	+ ·010	− ·001	− ·002	− ·001	− ·001	+ ·009	+ ·005	− ·005	4 „
5 „	− ·001	− ·006	+ ·007	+ ·012	+ ·005	+ ·002	− ·006	− ·007	− ·000	+ ·016	+ ·004	+ ·001	5 „
6 „	− ·002	− ·004	+ ·010	+ ·012	+ ·009	+ ·001	− ·008	− ·011	− ·005	+ ·014	+ ·010	+ ·004	6 „
7 „	− ·001	+ ·001	+ ·009	+ ·012	+ ·007	− ·004	− ·015	− ·016	− ·009	+ ·011	+ ·010	+ ·005	7 „
8 „	+ ·004	+ ·004	+ ·014	+ ·010	+ ·000	− ·016	− ·023	− ·021	− ·010	+ ·007	+ ·011	+ ·011	8 „
9 „	+ ·008	+ ·011	+ ·014	+ ·006	− ·001	− ·011	− ·017	− ·022	− ·016	+ ·007	+ ·012	+ ·012	9 „
10 „	+ ·007	+ ·018	+ ·014	+ ·001	− ·008	− ·020	− ·024	− ·018	− ·014	+ ·003	+ ·006	+ ·010	10 „
11 „	+ ·005	+ ·017	+ ·013	+ ·002	·000	− ·013	− ·015	− ·009	− ·009	− ·004	− ·001	+ ·005	11 „
Noon.	− ·004	+ ·012	+ ·007	·000	+ ·008	·000	− ·001	+ ·001	− ·004	− ·008	− ·010	− ·005	Noon.
1 P. M.	− ·007	− ·002	+ ·001	− ·005	+ ·006	+ ·002	+ ·012	+ ·008	− ·001	− ·014	− ·016	− ·012	1 P. M.
2 „	− ·011	− ·010	− ·004	− ·009	+ ·006	+ ·020	+ ·015	+ ·003	− ·015	− ·013	− ·012	2 „
3 „	− ·006	− ·012	− ·009	− ·009	− ·001	+ ·023	+ ·021	+ ·016	+ ·005	− ·014	− ·007	− ·009	3 „
4 „	·000	− ·010	− ·009	− ·015	− ·006	+ ·018	+ ·017	+ ·014	+ ·010	− ·010	·000	− ·003	4 „
5 „	·000	− ·010	− ·013	− ·017	− ·007	+ ·011	+ ·013	+ ·012	+ ·012	− ·004	+ ·002	+ ·002	5 „
6 „	− ·004	− ·013	− ·014	− ·012	− ·006	+ ·004	+ ·012	+ ·011	+ ·010	− ·005	+ ·003	+ ·004	6 „
7 „	+ ·006	− ·010	− ·006	− ·013	− ·007	+ ·004	+ ·008	+ ·006	+ ·012	+ ·001	+ ·008	+ ·010	7 „
8 „	+ ·011	− ·005	− ·004	− ·010	− ·005	+ ·002	+ ·005	·000	+ ·011	+ ·007	+ ·005	+ ·010	8 „
9 „	+ ·010	·000	− ·002	− ·005	− ·006	− ·003	+ ·002	+ ·003	+ ·008	+ ·005	− ·002	+ ·007	9 „
10 „	+ ·006	+ ·003	− ·005	− ·000	− ·002	·000	+ ·007	+ ·004	+ ·008	+ ·002	− ·003	+ ·003	10 „
11 „	+ ·001	+ ·005	− ·001	+ ·001	− ·002	+ ·001	+ ·006	+ ·009	+ ·004	− ·001	− ·007	− ·002	11 „

TABLE XIX.—*Showing, for the Year* 1857, *the Hourly Sums of the Numbers in the preceding Table of Diurnal Inequality.*

Bombay Civil Time.	Hourly sums in Summer.	Hourly sums in Winter.
	in.	in.
Midnight.	0·019	− 0·006
1 A. M.	·009	− ·006
2 „	·018	− ·003
3 „	·013	− ·003
4 „	·015	·006
5 „	·006	·021
6 „	− ·002	·032
7 „	− ·025	·035
8 „	− ·060	·051
9 „	− ·081	·064
10 „	− ·083	·058
11 „	− ·044	·035
Noon.	·004	− ·008
1 P. M.	·022	− ·050
2 „	·055	− ·065
3 „	·055	− ·057
4 „	·038	− ·032
5 „	·024	− ·023
6 „	·019	− ·029
7 „	·010	·029
8 „	·003	·024
9 „	− ·001	·018
10 „	·017	·006
11 „	·019	− ·005

FOR DAY AND NIGHT.

	Summer. in.	Winter. in.
Mean of {6, 7, 8, 9, 10, 11 P. M. / Midnt. 1, 2, 3, 4, 5 A. M.} or Night....	0·012	0·004
Mean of {6, 7, 8, 9, 10, 11 A. M. / Noon, 1, 2, 3, 4, 5 P. M.} or Day	0·008	0·003
Mean..	0·002	0·003

TIMES OF MEAN MAXIMUM AND MINIMUM.

Most irregular at 9 A. M. and 2 P. M. in Winter.
Least affected at 4 „ and 10 „ in Winter.
Most irregular at 10 „ and 2 „ in Summer.
Least affected at 5 „ and Noon in Summer.

TABLE XX.—*Showing, for each Month, the Sums of the Diurnal Inequality Numbers without regard to the Signs, as well as the Mean Monthly Inequality with its proper Signs.*

Months, 1857.	Monthly Sums of Number in the Diurnal Inequality Tables.	Mean.
	in.	in.
January	0·104	+ 0·0009
February	·166	− 0·0002
March	·163	+ 0·0006
April	·215	− 0·0001
May	·118	+ 0·0007
June	·162	+ 0·0006
July	·250	+ 0·0018
August	·211	0·0000
September	·163	− 0·0001
October	·170	+ 0·0008
November	·149	+ 0·0003
December	·155	+ 0·0005

FOR SEASONS.

	Sums. in.	Mean Value. in.
Mean of {Jan. Feb. March, / Oct. Nov. Dec.} or Winter.....	0·151	0·0005
Mean of {Apr. May, June, / July, Aug. Sept.} or Summer	0·186	0·0005
Mean of the Year.....	0·168	0·0005
Greatest monthly mean, in July		0·250
Least monthly mean, in January.....		0·104
Difference.....		0·146

TABLE XXI.—*The Greatest and Least Heights of Standard Barometer, in the Simple Hourly Observations during the Year* 1857.

THE GREATEST HEIGHTS OF BAROMETER.

DATE AND TIME.		The Extreme Highest.	Average from the calculated Results.	Above the Average.
		in.	in.	in.
6 January	9 A. M.	30·104	30·011	0·093
7 February	10 „	·002	29·956	·046
19 February	10 „	29·971	·936	·035
14 March	9 „	30·025	·902	·113
27 March	9 „	29·934	·882	·052
7 May	10 „	·811	·799	·012
14 May	9 „	·886	·792	·094
11 June	9 „	·758	·691	·067
27 June	9 „	·707	·677	·030
30 August	10 „	·830	·786	·044
26 September	9 „	·998	·878	·120
22 October	10 „	·957	·930	·027
17 November	9 „	30·074	·991	·083
29 November	9 „	·061	30·018	·043
29 December	9 „	·105	·023	·082

THE LEAST HEIGHTS OF BAROMETER.

DATE AND TIME.		The Extreme Lowest.	Average from the calculated Results.	Below the Average.
		in.	in.	in.
20 January	5 P. M.	29·819	29·877	− 0·058
28 January	4 „	·812	·850	− 0·038
13 February	4 „	·791	·817	− 0·026
27 February	5 „	·721	·801	− 0·080
23 March	5 „	·691	·765	− 0·074
28 March	4 „	·667	·755	− 0·088
30 April	4 „	·602	·693	− 0·091
27 May	4 „	·554	·654	− 0·100
23 June	4 „	·507	·613	− 0·106
11 August	4 „	·514	·644	− 0·130
19 September	4 „	·686	·778	− 0·092
16 October	4 „	·731	·800	− 0·069
6 November	3 „	·780	·849	− 0·069
12 December	4 „	·868	·925	− 0·057

TEMPERATURE.

This element was observed hourly by six Thermometers, placed in the thermometer shed, which is covered with date leaves, and screened on all sides by bamboo matted frames.

1. Thermometer kept in free and open air.
2. Thermometer kept on the surface of the ground.
3. Thermometer, whose bulb is inserted 6 inches under the surface of the ground.
4. Thermometer, whose bulb is inserted 20 inches below the surface of the ground.
5. Thermometer, whose bulb is inserted 60 inches below the surface of the ground.
6. Thermometer of the Large Horizontal Force Magnetometer, which is supposed best to indicate the temperature of air within the Magnetic Observatory.

No days were considered as abnormal in calculating the Temperature Results, though many days during the South-West Monsoon approximated the appearance of such.

Table XXII.—*Mean Temperature of External and Free Air, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
1	72°9		79°9	85°4	86°0		82°6	76°6	80°2	80°2		74°8
2	75·1	75°1		85·7	85·9	83°2	82·5		78·7	80·5	79°0	73·8
3	76·8	76·7	80·7	83·9		83·1	82·5	79·6	79·0	81·0	78·9	73·3
4		76·1	79·9	84·0	86·3	85·1	83·1	79·5	79·6		78·2	74·3
5	74·9	73·9	79·8		86·4	85·4			79·2	80·2	79·6	77·0
6	73·7	73·8	79·9	82·8	85·7	85·9	83·4	78·0		81·3	80·0	
7	72·6	74·3	80·1	81·8	85·2		82·2	79·4	79·3	80·6	80·7	74·0
8	74·2			81·5	85·8	85·5	83·1	79·4	78·1	81·6		72·8
9	74·9	75·8	79·6	81·6	86·2	85·5	83·8		78·5	81·5	81·4	73·8
10	75·8	76·4	79·0			85·9	84·3	78·4	77·2	81·1	79·8	73·1
11		77·5		82·0	85·9	83·5	84·7	78·6	79·2		78·1	72·0
12	76·0	78·9	79·8		86·4	83·9		79·8	79·2	80·7	77·8	74·7
13	75·2	78·6	80·2	83·5	86·1	84·3	84·4	80·3		80·1	78·0	
14	73·6	76·7	78·9	83·4	86·1		83·3	80·2	79·1	79·1	78·4	77·3
15	73·6			83·3	85·8	84·5	83·3		79·8	80·2		76·9
16	75·8	77·3	80·9	83·3	85·7	84·4	83·3		80·4	81·3	77·2	73·9
17	75·5	78·4	82·9	83·9		83·7	83·3	78·5	77·7		78·9	72·9
18		78·1	85·2	82·3	86·0	80·1	83·3	78·6	77·7		78·2	71·7
19	75·7	80·1	84·9		86·2	81·7		78·5	77·0	80·6	76·3	73·1
20	77·4	79·3	83·7	80·2	86·4	83·9	82·6	78·2		80·9	76·4	
21	79·7	77·6	82·5	80·9	86·7		82·7	77·6	78·1	81·6	76·2	74·4
22	77·9			82·7	86·7	83·9	81·3	79·4	78·8	81·8		73·8
23	76·1	79·3	83·7	82·4	86·8	80·2	82·4		79·8	80·8	75·1	73·7
24	75·1	79·8	84·4	82·4		89·8	83·5	79·9	79·5	80·5	75 5	73·3
25		80·5	83·4	82·8	85·3	81·3	79·9	80·3	78·5		74·6	
26	74·5	80·7	82·8		85·9	82·4		80·8	79·7	80.4	74·0	73·3
27	72·1	79·9	82·1	84·3	85·0	82·6	79·1	80·3		80.4	73·9	
28	70·9	80·2	83·5	84·8	85·4		76·9	80·2	80·6	79.3	74·8	73·7
29	72·3			84·7	87·6	82·9	78·1	80·4	80·5	79.5	74·5	73·5
30	72·6		83·1	85·6	87·4	83·1	77·8	80·8	79·7	79.1		73·3
31	73·3		84·2		86·6		79·7			78.7		73·7

TABLE XXIII.—*Showing the Number of Instances in which the Difference between the Mean Daily Temperature of External and Free Air was within certain limits during the Year* 1857.

The difference between the Mean Daily Temperature of two consecutive days.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole number of cases in the Year.
Greater than 1° and less than 2°	12	8	7	7	1	4	7	6	7	7	7	9	82
„ 2 „ 3	4	2	3	1	1	2	1		2			3	19
„ 3 „ 4						2	1	1				2	6

It appears from this Table that out of 307 days there were 200 instances in which the difference of the two consecutive days was less than 1°0.

There were 82 instances in which the difference was greater than 1° and less than 2°.

„ 25 „ „ „ „ 2° „ 4°.

In no instance the difference was greater than 4°0.

TABLE XXIV.—*Showing the Greatest and Least Mean Daily Temperature of External and Free Air, and the Days on which they occurred.*

Months, 1857.	Mean Daily Temperature of Free Air.		Difference.	The Day on which the Temperature of Free Air was	
	Greatest.	Least.		Greatest.	Least.
				D.	D.
January	79°7	70°9	8°8	21	28
February	80·7	73·8	6·9	26	6
March	85·2	78·9	6·3	18	14
April	85·7	80·2	5·5	2	20
May	87·6	85·0	2·6	29	27
June	85·9	79·8	6·1	10	24
July	84·7	76·9	7·8	11	28
August	80·8	76·6	4·2	30	1
September	80·6	77·0	3·6	28	19
October	81·8	78·7	3·1	22	31
November	81·4	73·9	7·5	9	27
December	77·3	71·7	5·6	14	18

TABLE XXV.—*Showing the Highest and Least Differences of the two Consecutive Daily Means, in each Month.*

Months, 1857.	Difference between the Mean Daily Temperature of two Consecutive Days.		Difference.	The Day on which the Difference was	
	Greatest.	Least.		Greatest.	Least.
				D. D.	D. D.
January	2°4	0°0	2°4	26 & 27	14 & 15
February	2·2	0·1	2·1	4 & 5	5 & 6
March	2·3	0·1	2·2	17 & 18	4 & 5 5 & 6
April	2·1	0·0	2·1	18 & 20	15 & 16
May	2·2	0·0	2·2	28 & 29	13 & 14 21 & 22
June	3·7	0·0	3·7	22 & 23	8 & 9 20 & 22
July	3·6	0·0	3·6	24 & 25	5 Instances.
August	3·0	0·0	3·0	1 & 3	7 & 8
September	2·7	0·0	2·7	16 & 17	2 Instances.
October	1·1	0·0	1·1	4 Instances.	26 & 27
November	1·9	0·1	1·8	18 & 19	3 Instances.
December	3·0	0·0	3·0	5 & 7 15 & 16	24 & 26

The times of the greatest and lowest Temperature of External and Free Air almost coincide with the times of the greatest and lowest Temperature of Air under other circumstances.

TABLE XXVI.—*Showing, for the Year* 1857, *the Hours of Bombay Civil Time at which the Greatest and Least Temperature of External and Free Air occurred in each Month in the simple Hourly Observations.*

Months, 1857.	Temperature of Free Air.		Range.	The Time at which the Mean Hourly Temperature of Free Air was at its	
	Greatest.	Least.		Greatest.	Least.
				D. H.	D. H.
January	88°3	63°0	25°3	21 2 P. M.	28 7 A. M.
February	90·3	66·4	23·9	19 3 „	6 6 „
March	100·2	71·4	28·8	18 1 „	7 6 „
April	92·2	73·2	19·0	1 11 A. M.	21 2 „
May	93·9	75·8	18·1	29 2 P. M.	27 8 P. M.
June	92·4	77·0	15·4	5 1 „	24 7 A. M.
July	90·2	75·0	15·2	11 2 „	30 8 „
August	85·4	75·6	9·8	26 1 „	1 11 P. M. 19 8 „
September	85·6	74·2	11·4	28 1 „ 29 1 & 2 „	25 6 A. M.
October	89·5	72·2	17·3	26 3 „	30 6 „
November	89·0	67·6	21·4	17 3 „	27 6 „
December	85·4	63·7	21·7	30 2 „	18 6 „

The annual range of temperature of external and free air was 37°2. This range is about 2°3 higher than the mean range of the last four years. On the 1st of March the maximum temperature of air rose 100·2, being about 9° higher than the normal for that month.

TABLE XXVII.—*Showing, for each Month, the Mean Temperature of External and Free Air, and its Excess above the Mean of the last Eleven Years.*

Months, 1857.	Mean Temperature of External and Free Air.	Excess above the Mean of the last eleven Years.	FOR SEASONS.	
January	74°7	0°7	Mean of Jan. Feb. Mar. Oct. Nov. Dec.	or Winter .... 77°7
February	77·7	2·6		
March	81·8	1·7		
April	83·1	0·1	Mean of Apr. May, June, July, Aug. Sept.	or Summer.... 82·2
May	86·1	0·5		
June	83·4	0·5		Mean of the year ..... 79·9
July	82·1	1·1		
August	79·3	- 1·2		
September	79·0	- 0·4	Greatest monthly mean in May	86·1
October	80·5	- 1·2	Least monthly mean in December	73·9
November	77·4	- 1·9		
December	73·9	- 1·8		Difference ..... 12·2

A small rise of temperature in the month of October has been always observed from 1847 to 1857; this shows that the temperature in the rainy season is slightly modified by the presence of clouds.

TABLE XXVIII.—*Range of the Temperature of External and Free Air, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	8°6		16°2	14°9	9°4		8°1	3°6	8°8	9°5		12°8
2	10·5	14°4		12·8	8·6	13°6	9·6		8·1	9·2	12°4	15·2
3	9·8	10·5	13·8	11·4		9·3	9·0	4·8	7·3	9·0	12·2	15·4
4		10·1	12·8	12·5	9·6	11·1	9·6	4·1	6·9		12·8	15·8
5	5·9	13·8	11·8		10·1	11·2			7·7	8·2	11·4	14·7
6	10·2	14·6	14·2	14·6	10·6	11·7	8·0	4·0		8·6	10·1	
7	13·6	10·6	16·7	13·8	9·2		5·4	4·4	7·6	9·4	8·7	14·0
8	12·8			12·1	11·4	10·6	6·5	3·2	5·8	9·1		11·9
9	10·8	16·0	16·4	11·0	11·0	8·5	8·0		5·1	12·4	10·9	14·7
10	13·8	15·0	13·3			9·8	7·1	1·6	4·1	12·2	13·8	14·6
11		15·6		12·6	11·6	12·0	8·9	4·4	8·3		12·8	14·8
12	11·0	17·5	14·9		11·2	12·2		4·8	7·8	12.6	12·2	15·2
13	10·7	13·8	11·2	11·3	10·3	12·8	8·3	7·7		11·3	14.2	
14	10·6	12·6	9·0	11·8	11·1		6·6	7·8	8·5	9·9	13·8	11·2
15	14·4			10·9	10·5	12·0	8·3		9·0	11·0		11·4
16	14·1	15·4	12·2	10·8	10·7	10·0	7·6		7·7	12·8	14·2	13·6
17	14·3	17·5	15·0	10·2		10·7	8·0	5·8	3·5		16·4	13·8
18		16·6	22·8	8·7	11·2	6·1	7·4	4·0	4·2		12·4	16·1
19	13·0	18·3	18·1		11·3	11·6		5·5	3·5	9·4	13·4	15·8
20	14·6	14·9	15·4	10·2	10·6	10·9	6·9	3·4		9·8	16·3	
21	13·7	10·8	10·9	14·4	9·8		7·8	4·2	4·7	11.6	15·4	18·4
22	14·0			14·8	9·5	9·4	5·5	8·0	7·5	10·9		11·9
23	13·0	17·2	15·8	13·8	10·5	8·6	7·7		8·2	11·8	15·5	16·8
24	15·6	16·0	15·9	12·4		5·4	10·6	6·4	8·8	14·7	16·1	16·2
25		14·1	13·4	14·0	9·7	7·0	6·6	7·0	9·6		15·2	
26	10·4	13·9	11·8		13·7	5·9		6·9	9·6	15·3	13·2	14·2
27	11·2	18·2	11·4	11·4	16·7	7·6	6·4	7·3		11·6	13·2	
28	16·6	17·6	14·1	12·8	11·6		2·2	6·6	8·4	11·7	11·8	18·0
29	14·6			11·6	10·6	7·2	5·5	6·7	9·3	12·8	12·4	14·6
30	15·4		12·2	11·2	10·3	6·0	4·4	6·7	10·4	13·8		19·4
31	17·4		14·7		10·2		5·9			12·1		16·5

TABLE XXIX.—*Showing the Number of Instances in which the Daily Range of Temperature of External and Free Air was within Certain Limits.*

Daily Range of Temperature of the External and Free Air.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole Number of Cases in the Year.
Greater than 0° and less than 3°							1	1					2
,, 3 ,, 4								3	2				5
,, 4 ,, 5							1	8	3				12
,, 5 ,, 6	1					2	4	2	2				11
,, 6 ,, 7						2	5	5	1				13
,, 7 ,, 8						3	5	4	6				18
,, 8 ,, 9	1			1	1	2	7	1	7	2	1		23
,, 9 ,, 10	1		1		6	3	3		4	8			26
,, 10 ,, 11	6	4	1	4	10	4	1		1	1	2		34
,, 11 ,, 12	2		4	7	8	4				6	2	4	37
,, 12 ,, 13	1	1	3	6		4				6	7	1	29
,, 13 ,, 14	5	3	4	2	1	1				1	5	2	24
,, 14 ,, 15	6	4	4	5						1	2	7	29
,, 15 ,, 16	2	3	4							1	3	5	18
,, 16 ,, 17	1	3	2		1						3	4	14
,, 17 ,, 18	1	4											5
,, 18 ,, 19		2	1									2	5
,, 19 ,, 23			1									1	2

Out of 307 instances given in the last column of this Table there were:—

19	days on which the daily range was greater than				1°	and less than			5°
91	,,	,,	,,	,,	5	,,	,,		10
153	,,	,,	,,	,,	10	,,	,,		15
43	,,	,,	,,	,,	15	,,	,,		20
1	,,	,,	,,	,,	22	,,	,,		23

TABLE XXX.—*Showing the Greatest and Least Range of the Temperature of External and Free Air, in each Month of the Year* 1857.

Months, 1857.	Daily Range of the Temperature of Free Air.		Difference.	The Day on which the Range of Temperature was	
	Greatest.	Least.		Greatest.	Least.
				D.	D.
January	17°4	5°9	11°5	31	5
February	18·3	10·1	8·2	19	4
March	22·8	9·0	13·8	18	14
April	14·9	8·7	6·2	1	18
May	16·7	8·6	8·1	27	2
June	13·6	5·4	8·2	2	24
July	10·6	2·2	8·4	24	28
August	8·0	1·6	6·4	22	10
September	10·4	3·5	6·9	30	17 & 19
October	15·3	8·2	7·1	26	5
November	16·4	8·7	7·7	17	7
December	19·4	11·2	8·2	30	14

The ranges of external and free air were larger in February, March, and December than in any other months of this year. The extreme difference was 21°2, being about 2°3 higher than the normal mean.

TABLE XXXI.—*Showing the Mean Monthly Ranges of the Temperature of External and Free Air.*

Months, 1857.	Mean Range of the Temperature of Free Air.		For Seasons.	
	Monthly Range.	Excess above the Annual Mean.		
January	12°6	1°4		
February	14·8	3 6		
March	14·1	2·9		
April	12·2	1·0		
May	10·7	− 0·5	Winter	13·6
June	9·5	− 1·7	Summer	8·8
July	7·3	− 3·9		
August	5·7	− 5·5	Annual mean	11·2
September	7·3	− 3·9		
October	11·2	0·0		
November	13·8	2·6		
December	14·9	3·7		

The mean annual range was 11°2, being about 0°2 higher than the normal mean. The mean monthly ranges were larger in Winter than in Summer.

TABLE XXXII.—*Mean Temperature of External and Free Air, in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	72°0	74°2	78°7	79°9	83°0	81°0	80°6	78°3	77°3	77°6	74°0	69°5	Midnight.
1 A. M.	71·3	73·8	78·1	79·5	82·7	81·1	80·4	78·2	77·0	77·0	73·6	69·3	1 A. M.
2 „	70·9	73·3	77·5	79·1	82·5	80·9	80·1	78·0	76·9	77·0	73·2	68·8	2 „
3 „	70·6	72·7	77·3	78·6	82·2	80·7	80·0	77·8	76·7	76·7	72·8	68·6	3 „
4 „	70·1	72·4	76·8	78·2	81·9	80·7	79·9	77·7	76·6	76·4	72·5	68·5	4 „
5 „	69·9	71·8	76·1	77·6	81·7	80·4	79·9	77·8	76·5	76·0	72·2	68·5	5 „
6 „	69·7	71·3	75·4	77·6	82·0	80·7	80·0	78·0	76·5	75·7	71·8	68·2	6 „
7 „	69·7	71·6	76·5	80·6	84·3	82·1	80·8	78·2	77·4	77·3	72·8	68·6	7 „
8 „	71·9	74·7	79·8	83·5	86·4	83·6	81·7	79·0	78·6	79·1	75·1	71·1	8 „
9 „	74·2	77·5	82·4	85·4	87·8	84·4	82·6	79·8	79·9	80·7	77·3	73·6	9 „
10 „	76·2	79·9	84·3	86·8	89·2	86·0	83·6	80·5	80·7	81·9	79·2	75·6	10 „
11 „	78·0	82·1	86·3	87·9	90·5	86·5	84·5	81·2	81·5	83·4	80·9	77·6	11 „
Noon.	79·6	83·9	87·5	88·7	91·3	87·7	85·0	81·7	82·1	84·8	82·6	79·8	Noon.
1 P. M.	80·7	84·5	88·5	89·2	91·7	88·1	85·4	81·8	82·4	85·7	83·7	81·4	1 P. M.
2 „	81·4	85·0	88·7	89·2	91·8	87·7	85·8	81·4	82·5	86·3	84·5	82·1	2 „
3 „	81·4	85·3	88·7	89·1	91·4	87·0	85·6	81·6	82·3	86·6	84·6	82·2	3 „
4 „	81·0	85·0	88·0	88·2	90·9	85·9	84·7	80·5	81·9	86·0	83·7	81·4	4 „
5 „	78·9	83·3	86·6	86·0	88·9	84·9	83·5	79·8	80·6	84·2	80·9	78·2	5 „
6 „	76·5	79·7	83·4	83·7	86·6	83·5	82·3	79·1	79·2	82·0	79·0	76·3	6 „
7 „	75·6	78·3	81·9	82·4	85·1	82·8	81·4	78·8	78·6	81·2	78·4	75·3	7 „
8 „	74·8	77·4	81·3	81·8	84·5	82·4	81·1	78·7	78·4	80·1	77·9	74·6	8 „
9 „	73·8	76·5	80·5	81·3	83·8	81·8	80·9	78·5	78·1	79·5	76·8	73·2	9 „
10 „	73·0	75·6	79·8	80·9	83·6	81·3	80·7	78·2	77·6	78·8	75·2	71·4	10 „
11 „	72·3	74·9	79·0	80·5	83·2	81·1	80·5	78·4	77·3	78·2	74·1	70·2	11 „

TABLE XXXIII.—*Showing, for the Year* 1857, *the Hours of Bombay Civil Time at which the Mean Temperature of External and Free Air, in each Month, was at its Maximum and Minimum.*

Months, 1857.	The Mean Hourly Temperature of Free Air.		Mean Diurnal Range.	The Time at which the Mean Hourly Temperature of Free Air was at its	
	Maximum.	Minimum.		Maximum.	Minimum.
				H.	H.
January	81°4	69°7	11°7	3 P. M.	7 A. M.
February	85·3	71·3	14·0	3 „	6 „
March	88·7	75·4	13·3	2 „	6 „
April	89·2	77·6	11·6	2 „	6 „
May	91·8	81·7	10·1	2 „	5 „
June	88·1	80·4	7·7	1 „	5 „
July	85·8	79·9	5·9	2 „	4 „
August	81·8	77·7	4·1	1 „	4 „
September	82·5	76·5	6·0	2 „	5 „
October	86·6	75·7	10·9	3 „	6 „
November	84·6	71·8	12·8	3 „	6 „
December	82·2	68·2	14·0	3 „	6 „

The difference between the greatest maximum and least minimum temperature is 23°6, which is 0°8 higher than the difference of the last year.

TABLE XXXIV.—*Showing, for the Year* 1857, *the Mean Temperature of External and Free Air for each Hour of Bombay Civil Time.*

Bombay Civil Time.	Mean Temperature of External and Free Air.		Annual Mean.	FOR DAY AND NIGHT.
	Summer.	Winter.		
Midnight.	80°0	74°3	77°2	
1 A. M.	79·8	73·9	76·8	
2 „	79·6	73·4	76·5	
3 „	79·3	73·1	76·2	
4 „	79·2	72·8	76·0	
5 „	79·0	72·4	75·7	Mean of { 6, 7, 8, 9, 10, 11 P. M. / Midnt. 1, 2, 3, 4, 5 A. M. } or Night..... 77°8
6 „	79·1	72·0	75·6	
7 „	80·6	72·7	76·6	
8 „	82·1	75·3	78·7	
9 „	83·3	77·6	80·4	Mean of { 6, 7, 8, 9, 10, 11 A. M. / Noon, 1, 2, 3, 4, 5 P. M. } or Day ..... 82·0
10 „	84·5	79·5	82·0	
11 „	85·4	80·0	82·7	Mean.... 79·2
Noon.	86·1	83·0	84·6	
1 P. M.	86·3	84·1	85·2	
2 „	86·2	84·7	85·4	
3 „	86·2	84·8	85·5	TIMES OF MEAN MAXIMUM AND MINIMUM.
4 „	85·3	84·2	84·8	
5 „	83·9	82·0	82·9	A maximum at 1 P. M. in Summer.
6 „	82·4	79·5	81·0	A minimum at 5 A. M. in Summer.
7 „	81·5	78·5	80·0	A maximum at 3 P. M. in Winter.
8 „	81·1	77·7	79·4	A minimum at 6 A. M. in Winter.
9 „	80·7	76·7	78·7	
10 „	80·7	75·6	78·1	
11 „	80·5	74·8	77·7	

TABLE XXXV.—*Mean Amount of Changes of Temperature of External and Free Air, as obtained from the Differences of Hourly Means in each Month of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Midnight & 1	−0°7	−0°4	−0°6	−0°4	−0°3	−0°1	−0·2	−0°1	−0°3	−0°6	−0°4	−0°2
1 & 2 A. M.	−0·4	−0·5	−0·6	−0·4	−0·2	−0·2	−0·3	−0·2	−0·1	0·0	−0·4	−0·5
2 & 3 „	−0·3	−0·6	−0·2	−0·5	−0·3	−0·2	−0·1	−0·2	−0·2	−0·3	−0·4	−0·2
3 & 4 „	−0·5	−0·3	−0·5	−0·4	−0·3	0·0	−0·1	−0·1	−0·1	−0·3	−0·3	−0·1
4 & 5 „	−0·2	−0·6	−0·7	−0·6	−0·2	−0·3	0·0	0·1	−0·1	−0·4	−0·3	0·0
5 & 6 „	−0·2	−0·5	−0·7	0·0	0·3	0·3	0·1	0·2	0·0	−0·3	−0·4	0·3
6 & 7 „	0·0	0·3	1·1	3·0	2·3	1·4	0·8	0·2	0·9	1·6	1·0	0·4
7 & 8 „	2·2	3·1	3·3	2·9	2·1	1·5	0·9	0·8	1·2	1·8	2·3	2·5
8 & 9 „	2·3	2·8	2·6	1·9	1·4	0·8	0·9	0·8	1·3	1·6	2·2	2·5
9 & 10 „	2·0	2·4	1·9	1·4	1·4	1·6	1·0	5·7	0·8	1·2	1·9	2·0
10 & 11 „	1·8	2·2	2·0	1·1	1·3	0·5	0·9	0·7	0·8	1·5	1·7	2·0
11 & Noon.	1·6	1·8	1·2	0·8	0·8	1·2	0·5	0·5	0·6	1·4	1·7	2·2
Noon & 1 P. M.	1·1	1·6	1·0	0·5	0·4	0·4	0·4	0·1	0·3	0·9	1·1	1·6
1 & 2 „	0·7	0·5	0·2	0·0	0·1	−0·4	0·4	−0·4	0·1	0·6	0·8	0·7
2 & 3 „	0·0	0·3	0·0	−0·1	−0·4	−0·7	−0·2	0·2	−0·2	0·3	0·1	0·1
3 & 4 „	−0·4	−0·3	−0·7	−0·9	−0·5	−1·1	−0·9	−1·1	−0·4	−0·6	−0·9	−0·8
4 & 5 „	−2·1	−1·7	−1·4	−2·2	−2·0	−1·0	−1·2	−0·7	−1·3	−1·8	−2·8	−3·2
5 & 6 „	−2·4	−3·6	−3·2	−2·3	−2·3	−1·4	−1·2	−0·7	−1·4	−2·2	−1·9	−1·9
6 & 7 „	−0·9	−1·4	−1·5	−1·3	−1·5	−0·7	−0·9	−0·3	−0·6	−0·8	−0·6	−1·0
7 & 8 „	−0·8	−0·9	−0·6	−0·6	−0·6	−0·4	−0·3	−0·1	−0·2	−1·1	−0·5	−0·7
8 & 9 „	−1·0	−0·9	−0·8	−0·5	−0·7	−0·6	−0·2	−0·2	−0·3	−0·6	−1·1	−1·4
9 & 10 „	−0·8	−0·9	−0·7	−0·4	−0·2	−0·5	−0·2	−0·3	−0·5	−0·7	−1·6	−1·8
10 & 11 „	−0·7	−0·7	−0·8	−0·4	−0·4	−0·2	−0·2	0·2	−0·3	−0·6	−1·1	−1·2
11 & Midnight.	−0·3	−0·7	−0·3	−0·6	−0·2	−0·1	+0·1	−0·1	0·0	−0·6	−0·1	−0·7

TABLE XXXVI.—*Showing, for the Year* 1857, *the Mean Change of Temperature between Consecutive Hours of Bombay Civil Time; and the Character of Changes.*

Bombay Civil Time.	Mean Amount of Difference.		Character of Changes.	
	Summer.	Winter.	Summer.	Winter.
Midnight.	− 0°2	− 0°5	Small fall, except in June.	Small fall.
1 & 2 A. M.	− 0·2	− 0·4	Small fall.	Small fall, except in October.
2 & 3 „	− 0·3	− 0·3	„ „	Small fall.
3 & 4 „	− 0·2	− 0·3	Small fall, except in June.	„ „
4 & 5 „	− 0·2	− 0·4	Small fall, except in June and August.	Small fall, except in December.
5 & 6 „	0·1	− 0·4	Small rise, except in April and Sept.	Small fall.
6 & 7 „	1·4	0·7	Moderate rise, except in April.	Moderate rise, except in January.
7 & 8 „	1·6	2·5	„ „	Very large rise; except in October.
8 & 9 „	1·2	2·3	Moderate rise.	„ „ „ „
9 & 10 „	1·1	1·9	„ „	Large rise.
10 & 11 „	0·9	1·9	„ „	„ „
11 & Noon.	0·7	1·6	„ „	„ „
Noon & 1 P. M.	0·4	1·2	Small rise.	Moderate rise.
1 & 2 „	0·0	0·6	Variable.	„ „
2 & 3 „	− 0·2	0·1	Small fall, except in August.	Small rise, except in January and March.
3 & 4 „	− 0·8	− 0·6	Moderate fall.	Small fall.
4 & 5 „	− 1·4	− 2·2	„ „	Very large fall.
5 & 6 „	− 1·6	− 2·5	„ „	„ „
6 & 7 „	− 0·9	− 1·0	„ „	Moderate fall.
7 & 8 „	− 0·4	− 0·8	Small fall.	„ „
8 & 9 „	− 0·4	− 1·0	„ „	„ „
9 & 10 „	− 0·3	− 1·1	„ „	„ „
10 & 11 „	− 0·2	− 0·8	Small fall, except in August.	„ „
11 & Midnight.	− 0·1	− 0·5	Small fall, except in July and August.	Small fall.

TABLE XXXVII.—*Showing, for the year* 1857, *the Mean Excess of the Hourly Temperature of External and Free Air above the Annual Mean.*

Bombay Civil Time.	Mean Excess of Temperature above the Annual Mean.	Bombay Civil Time.	Mean Excess of Temperature above the Annual Mean.	For Day and Night.
Midnight.	− 2°7	Noon.	4°7	
1 A. M.	− 3·1	1 P. M.	5·3	Mean of { 6, 7, 8, 9, 10, 11 P. M. / Midnt. 1, 2, 3, 4, 5 A. M. } or Night.... − 2°12
2 „	− 3·4	2 „	5·5	
3 „	− 3·7	3 „	5·6	
4 „	− 3·9	4 „	4·9	
5 „	− 4·2	5 „	3·0	Mean of { 6, 7, 8, 9, 10, 11 A. M. / Noon, 1, 2, 3, 4, 5 P. M. } or Day..... + 2·13
6 „	− 4·3	6 „	1·1	
7 „	− 3·3	7 „	0·1	
8 „	− 1·2	8 „	− 0·5	Times of Maximum and Minimum.
9 „	0·5	9 „	− 1·2	
10 „	2·1	10 „	− 1·8	Maximum excess at 6 A. M. and 3 P. M.
11 „	2·8	11 „	− 2·2	Minimum excess at 9 A. M. and 7 P. M.

If the mean Temperature of any day is to be determined by two Observations of that day, the hours best suited for the purpose are 1 A. M. and 5 P. M.; 11 A. M. and 11 P. M.; 8 A. M. and 6 P. M.; and 9 A. M. and 8 P. M. The Observation taken at 7 P. M. will be near enough to the true Mean Temperature of any day.

TABLE XXXVIII.—*Showing the Approximation to the Mean Temperature of External and Free Air from various Combinations.*

Months, 1857.	Combination of Observations taken at				Monthly Mean.	Differences of Combinations with the True Mean.			
	1 A. M. and 5 P. M.	11 A. M. and 11 P. M.	8 A. M. and 6 P. M.	9 A. M. and 8 P. M.		1 A. M. and 5 P. M.	11 A. M. and 11 P. M.	8 A. M. and 6 P. M.	9 A. M. and 8 P. M.
January....	75°1	75°1	74°2	74°5	74°7	0°4	0°4	− 0°5	− 0°2
February ..	78·6	78·5	77·2	77·4	77·7	0·9	0·8	− 0·5	− 0·3
March	81·3	82·6	81·6	81·9	81·8	− 0·5	0·8	− 0·2	0·1
April.....	82·7	84·2	83·6	83·6	83·1	− 0·4	1·1	0·5	0·5
May	85·8	86·9	86·5	86·1	86·1	− 0·3	0·8	0·4	0·0
June	83·0	83·8	83·5	83·4	83·4	− 0·4	0·4	0·1	0·0
July	82·0	82·5	82·0	81·8	82·1	− 0·1	0·4	− 0·1	− 0·3
August	79·0	79·8	79·1	79·3	79·3	− 0·3	0·5	− 0·2	0·0
September ..	78·8	79·4	78·9	79·1	79·0	− 0·2	0·4	− 0·1	0·1
October ...	80·6	80·8	80·5	80·4	80·5	0·1	0·3	0·0	− 0·1
November ..	77·2	77·5	77·1	77·6	77·4	− 0·2	0·1	− 0·3	0·2
December ..	73·3	73·9	73·7	74·0	73·9	− 0·6	0·0	− 0·2	0·1

If the sums of all the numbers in the above Table be taken without regard to the signs of numbers, the result is as follows:—

The combination of Midnight and 5 P. M. will differ by about 0°37.
" 11 A. M. and 11 " " " 0·50.
" 8 " 6 " " " 0·25.
" 9 " 8 " " " 0·16.

TABLE XXXIX.—*Excess of the Mean Hourly Temperature of External and Free Air above the Monthly Mean Temperature.*

Bombay Civil Time.	MONTHS, 1856.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	− 2°7	− 3°5	− 3°1	− 3°3	− 3°1	− 2°4	− 1°5	− 1°0	− 1°7	− 2°9	− 3°6	− 4°4	Midnight.
1 A. M.	− 3·4	− 3·9	− 3·7	− 3·7	− 3·4	− 2·3	− 1·7	− 1·1	− 2·0	− 3·5	− 3·8	− 4·6	1 A. M.
2 "	− 3·8	− 4·4	− 4·2	− 4·1	− 3·6	− 2·5	− 2·0	− 1·3	− 2·1	− 3·5	− 4·1	− 5·1	2 "
3 "	− 4·1	− 5·0	− 4·5	− 4·5	− 3·9	− 2·7	− 2·1	− 1·5	− 2·3	− 3·8	− 4·6	− 5·3	3 "
4 "	− 4·6	− 5·3	− 5·0	− 4·9	− 4·2	− 2·7	− 2·2	− 1·6	− 2·4	− 4·1	− 4·9	− 5·4	4 "
5 "	− 4·9	− 5·9	− 5·7	− 5·5	− 4·4	− 3·0	− 2·2	− 1·5	− 2·5	− 4·5	− 5·2	− 5·4	5 "
6 "	− 5·0	− 6·4	− 6·4	− 5·6	− 4·1	− 2·7	− 2·1	− 1·3	− 2·5	− 4·8	− 5·6	− 5·7	6 "
7 "	− 5·1	− 6·1	− 5·3	− 2·6	− 1·8	− 1·4	− 1·3	− 1·1	− 1·6	− 3·2	− 4·6	− 5·3	7 "
8 "	− 2·8	− 3·0	− 2·0	0·4	0·3	0·2	− 0·4	− 0·3	− 0·4	− 1·4	− 2·3	− 2·8	8 "
9 "	− 0·5	− 0·2	0·6	2·3	1·7	1·0	0·5	0·5	0·9	0·2	− 0·1	− 0·3	9 "
10 "	1·5	2·2	2·5	3·6	3·1	2·7	1·5	1·3	1·6	1·4	1·8	1·7	10 "
11 "	3·3	4·4	4·5	4·7	4·4	3·1	2·3	1·9	2·4	2·9	3·5	3·7	11 "
Noon.	4·9	6·2	5·7	5·5	5·2	4·3	2·9	2·4	3·1	4·3	5·2	5·9	Noon.
1 P. M.	5·9	6·8	6·7	6·0	5·6	4·7	3·3	2·5	3·4	5·2	6·3	8·5	1 P. M.
2 "	6·6	3·7	6·9	6·1	5·6	4·3	3·7	2·1	3·5	5·8	7·1	8·2	2 "
3 "	6·7	7·6	6·9	5·9	5·2	3·6	3·5	2·3	3·3	6·1	7·2	8·3	3 "
4 "	6·3	7·3	6·2	5·0	4·8	2·5	2·5	1·3	2·9	5·5	6·3	7·5	4 "
5 "	4·2	5·6	4·8	2·9	2·8	1·4	1·4	0·5	1·6	3·7	3·5	4·3	5 "
6 "	1·8	2·0	1·6	0·6	0·5	0·1	0·1	− 0·2	0·2	1·5	1·6	2·4	6 "
7 "	0·9	0·6	0·1	0·8	− 1·0	− 0·6	− 0·7	− 0·5	− 0·4	0·7	1·0	1·4	7 "
8 "	0·1	− 0·3	− 0·5	1·3	− 1·6	− 1·0	− 1·0	− 0·6	− 0·6	− 0·4	0·5	0·7	8 "
9 "	− 0·9	− 1·2	− 1·3	1·8	− 2·4	− 1·6	− 1·3	− 0·8	− 1·0	− 1·0	− 0·4	− 0·7	9 "
10 "	− 1·7	− 2·1	− 2·0	2·3	− 2·5	− 2·1	− 1·4	− 1·1	− 1·4	− 1·7	− 2·2	− 2·5	10 "
11 "	− 2·4	− 2·8	− 2·8	2·7	− 2·9	− 2·4	− 1·6	− 0·9	− 1·7	− 2·3	− 3·3	− 3·7	11 "

TABLE XL.—*Mean Hourly Temperature of External and Free Air, diminished by the Monthly Mean, and the Mean Diurnal Change for each Hour.*

Bombay Civil Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	0°2	−0°6	−0°2	−0°4	−0°2	0°5	1°4	1°9	1°2	0°0	−0°7	−1°5	Midnight.
1 A. M.	−0·2	−0·7	−0·5	−0·5	−0·2	0·9	1·5	2·1	1·2	−0·3	−0·6	−1·4	1 A. M.
2 „	−0·3	−0·9	−0·7	−0·6	−0·1	1·0	1·5	2·2	1·4	0·0	−0·6	−1·6	2 „
3 „	−0·4	−1·3	−0·8	−0·8	−0·2	1·0	1·6	2·2	1·4	−0·1	−0·9	−1·6	3 „
4 „	−0·6	−1·3	−1·0	−0·9	−0·2	1·3	1·8	2·4	1·6	−0·1	−0·9	−1·4	4 „
5 „	−0·6	−1·6	−1·4	−1·2	−0·1	1·3	2·1	2·8	1·8	−0·2	−0·9	−1·1	5 „
6 „	−0·6	−2·0	−2·0	−1·2	0·3	1·7	2.3	3·1	1·9	−0·4	−1·2	−1·3	6 „
7 „	−2·2	−3·2	−2·4	0·3	1·1	1·5	1·6	1·8	1·3	−0·3	−1·7	−2·4	7 „
8 „	−2·6	−2·8	−1·8	0·6	0·5	0·4	−0·2	−0·1	−0·2	−1·2	−2·1	−2·6	8 „
9 „	−2·2	−1·9	−1·1	0·6	0·0	−0·7	−1·2	−1·2	−0·8	−1·5	−1·8	−2·0	9 „
10 „	−1·8	−1·1	−0·8	0·3	0·2	−0·7	−1·8	−2·0	−1·7	−1·9	−1·5	−1·6	10 „
11 „	−1·2	−0·1	0·0	0·2	0·1	−1·4	−2·2	−2·6	−2·1	−1·6	−1·0	−0·8	11 „
Noon.	−0·3	1·0	0·5	0·3	0·0	−0·9	−2·3	−2·8	−2·1	−0·9	0·0	0·7	Noon.
1 P. M.	0·4	1·3	1·2	0·5	0·1	−0·8	−2·2	−3·0	−2·1	−0·3	0·8	3·0	1 P. M.
2 „	1·3	2·0	1·6	0·8	0·3	−1·0	−1·6	−3·2	−1·8	0·5	1·8	2·9	2 „
3 „	2·0	2·9	2·2	1·2	0·5	−1·1	−1·2	−2·4	−1·4	1·4	2·5	3·6	3 „
4 „	2·4	3·4	2·3	1·1	0·9	−1·4	−1·4	−2·6	−1·0	1·6	2·4	3·6	4 „
5 „	1·9	3·3	2·5	0·6	0·5	−0·9	−0·9	−1·8	−0·7	1·4	1·2	2·0	5 „
6 „	1·3	1·5	1·1	0·1	0·0	−0·4	−0·4	−0·7	−0·3	1·0	1·1	1·9	6 „
7 „	1·2	0·9	0·4	−0·5	−0·7	−0·3	−0·4	−0·2	−0·1	1·0	1·3	1·7	7 „
8 „	1·0	0·6	0·4	−0·4	−0·7	−0·1	−0·1	0·3	0·3	0·5	1·4	1·6	8 „
9 „	0·6	0·3	0·2	−0·3	−0·9	−0·1	0·2	0·7	0·5	0·5	1·1	0·8	9 „
10 „	0·4	0·0	0·1	−0·2	−0·4	0·0	0·7	1·0	0·7	0·4	−0·1	−0·4	10 „
11 „	0·3	−0·1	−0·1	0·0	−0·2	0·3	1·1	1·8	0·0	0·4	−0·6	−1·0	11 „

TABLE XLI.—*Showing, for the Year* 1857, *the Hourly Sums of the Numbers in the preceding Table of Diurnal Inequality of Temperature of Free Air, without regard to their Signs.*

Bombay Civil Time.	Hourly Sums.	Mean.	FOR DAY AND NIGHT.
Midnight.	8°8	0°73	
1 A. M.	10·1	0·84	
2 „	10·9	0·91	
3 „	12·3	1·02	
4 „	13·5	1·13	Mean of { 6, 7, 8, 9, 10, 11 P. M. / Midnt. 1, 2, 3, 4, 5 A. M. } or Night.... 9°5
5 „	15·1	1·26	
6 „	18·0	1·50	
7 „	19·8	1·75	
8 „	15·1	1·26	Mean of { 6, 7, 8, 9, 10, 11 P. M. / Noon, 1, 2, 3, 4, 5 A. M. } or Day..... 17·2
9 „	15·0	1·25	
10 „	14·4	1·20	
11 „	13·3	1·11	Mean..... 13·3
Noon.	11·8	0·98	
1 P. M.	15·7	1·31	
2 „	18·8	1·57	
3 „	22·4	1·83	
4 „	24·1	2·01	
5 „	17·7	1·48	TIMES OF MEAN MAXIMUM AND MINIMUM.
6 „	9·8	0·81	
7 „	8·7	0·72	Greatest sum at 3 and 4 P. M.
8 „	7·4	0·61	Least sum at 10 P. M.
9 „	6·2	0·51	
10 „	4·4	0·37	
11 „	6·9	0·58	

TABLE XLII.—*Showing, for each Month, the Sums of the Diurnal Inequality Numbers without regard to their Signs.*

Months, 1857.	Monthly Sums of Numbers of the Diurnal Inequality.	Mean.	FOR SEASONS.
January	26°0	1°08	
February.....	33·8	1·41	Mean sum of { Jan. Feb. Mar. / Oct. Nov. Dec. } or Winter .. 28°9
March	25·3	1·06	
April	13·6	0·57	
May.....	8·4	0·35	Mean sum of { Apr. May, June, / July, Aug. Sept. } or Summer .. 24·5
June.....	19·7	0·82	
July.....	31·7	1·32	
August.....	44·9	1·87	
September	28·6	1·19	
October	17·5	0·73	Greatest monthly sum, in August and December.
November	28·2	1·17	Least monthly sum, in April and May.
December.....	42·5	1·77	

TABLE XLIII.—*The Greatest and Least Temperature of External and Free Air, in the Simple Hourly Observations, during the Year* 1857.

THE GREATEST TEMPERATURE OF FREE AIR.

DATE AND TIME.		The extreme Highest.	Average from the calculated Results.	Above the Average.
21 January	2 P. M.	88°3	82°1	6°2
12 February	1 „	89·1	84·1	5·0
19 February	3 „	90·3	85·7	4·6
28 February	3 „	90·2	86·8	3·4
18 March	1 „	100·2	88·6	11·6
1 April	11 A. M.	92·2	87·1	5·1
28 April	Noon.	91·4	89·7	1·7
11 July.....	2 P. M.	90·2	85·6	4·6
28 September	1 „	85·6	83·9	1·7
26 October	3 „	89·5	85·9	3·6
10 November	2 „	88·1	84·2	3·9
17 November	3 „	89·0	84·4	4·6
30 December.....	2 „	85·4	81·8	3·6

THE LEAST TEMPERATURE OF FREE AIR.

DATE AND TIME.		The extreme Lowest.	Average from the calculated Results.	Below the Average.
7 January	6 A. M.	65·6	69·5	− 3·9
28 January	7 „	63·0	70·5	− 7·5
6 February	6 „	66·4	71·0	− 4·6
7 March	6 „	71·4	74·3	− 2·9
21 April	2 „	73·2	79·8	− 6·6
8 May.....	6 „	80·5	81·0	− 0·5
27 May.....	8 P. M.	75·8	83·7	− 7·9
24 June.....	7 A. M.	77·0	81·7	− 4·7
30 October	6 „	72·2	73·7	− 1·5
27 November	6 „	67·6	70·8	− 3·2
18 December.....	6 „	63·7	68·3	− 4·6

TABLE XLIV.—*Mean Temperature of Air in Contact with the Surface of the Earth, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
1	72°8		80°1	85°4	86°4		82°9	76°6	80°6	80°2		74°7
2	75·0	74°5		85·7	86·6	84°1	83·1		79·2	80·5	79°1	73·9
3	76·8	76·8	80·8	84·2		83·8	82·9	79·7	79·7	81·0	79·1	73·3
4		76·2	80·0	84·2	86·6	85·2	83·2	79·6	80·1		78·3	74·3
5	75·1	74·0	79·7		86·8	85·0			79·7	80·3	79·7	76·7
6	73·4	73·8	79·7	82·9	86·0	85·4	83·6	78·2		81·2	80·2	
7	72·2	74·3	79·8	81·9	85·6		82·8	79·5	80·1	80·8	81·1	74·0
8	73·9			81·3	85·9	85·8	83·7	79·5	78·8	81·7		72·7
9	74·7	75·6	79·4	81·8	86·0	85·9	84·3		78·2	81·6	81·5	73·7
10	76·0	76·4	78·8			86·2	84·8	78·7	77·8	81·3	79·8	72·9
11		77·5		81·8	85·9	83·8	85·3	79·2	79·5		78·2	71·8
12	76·1	79·0	79·6		86·3	84·2		80·5	79·5	80·8	77·8	74·5
13	75·2	78·6	80·3	82·9	85·9	84·0	84·9	80·8		80·3	78·0	
14	73·8	76·8	79·2	83·4	85·9		83·7	80·5	79·3	79·4	78·3	77·4
15	73·7			83·4	85·5	84·7	83·9		80·0	80·5		76·9
16	75·7	77·3	80·9	83·3	85·5	84·9	84·0		80·7	81·5	77·3	73·8
17	75·3	78·2	82·7	83·8		84·1	83·9	79·0	78·4		78·7	72·9
18		78·0	85·0	82·3	85·7	80·6	83·8	79·2	78·2		78·1	71·8
19	75·6	80·0	84·4		85·8	82·3		78·9	77·4	80·9	76·2	73·0
20	77·3	79·2	83·7	80°2	86·4	84·3	82·9	78·9		81·2	76·3	
21	79·5	77·8	82·9	80·9	86·6		82·7	78·4	78·6	81·7	76·3	74·2
22	77·8			82·7	86·4	84·2	82·0	79·8	79·2	81·8		73·8
23	76·0	79·2	83·8	82·3	86·6	80·9	83·1		79·7	80·8	75·1	73·7
24	75·2	79·8	84·4	82·6		80·5	83·7	80·1	79·7	80·5	75·5	73·3
25		80·6	83·4	83·0	85·6	81·7	80·7	80·6	78·7		74·7	
26	74·7	80·5	82·9		85·7	82·9		81·2	79·7	80·6	74·4	73·2
27	71·9	80·0	82·3	84·6	85·1	83·1	80·1	81·0		80·4	74·2	
28	71·0	80·8	83·6	85·2	86·5		78·1	80·8	80·4	79·7	74·5	73·5
29	72·3			84·6	88·0	83·1	79·0	80·9	80·4	79·9	74·6	73·2
30	72·5		83·3	85·9	87·7	83·3	78·7	81·0	79·6	79·5		73·2
31	73·1		84·2		87·0		80·2			79·1		73·6
Mean	74·7	77·7	81·8	83·2	86·2	83·8	82·7	79·7	79·4	80·7	77·5	73·8

TABLE XLV.—*Mean Temperature of Air in Contact with the Surface of Ground in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Mean Hourly Temperature.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	72°4	74°7	79°1	80°6	83°5	81°6	81°3	78°7	77°8	78°0	75°0	70°3	77°8
1 A. M.	71·8	74·2	78·6	80·1	83·3	81·7	81·1	78·7	77·7	77·8	74·3	70·1	77·4
2 „	71·3	73·8	78·2	79·7	83·6	81·7	80·8	78·4	77·6	77·7	74·0	69·5	77·2
3 „	71·0	73·4	77·9	79·3	82·9	81·4	80·8	78·3	77·4	77·4	73·6	69·2	76·9
4 „	70·5	72·9	77·4	79·0	82·7	81·3	80·5	78·1	77·3	77·1	73·4	69·0	76·6
5 „	70·3	72·4	76·8	78·4	82·4	81·3	80·7	78·3	77·2	76·8	73·1	69·0	76·4
6 „	70·1	71·9	76·2	78·4	82·8	81·5	80·8	78·6	77·2	76·5	72·7	68·7	76·3
7 „	70·3	72·5	77·4	81·2	84·6	82·7	81·6	78·7	78·1	77·9	73·6	69·3	77·3
8 „	72·2	74·7	80·0	83·4	86·4	83·5	82·3	79·6	79·1	79·4	75·6	71·5	79·0
9 „	74·1	77·4	82·1	85·0	87·6	84·8	83·2	80·4	80·3	80·8	77·4	73·3	80·5
10 „	75·9	79·6	83·6	86·0	88·7	86·1	84·1	81·0	80·9	81·8	79·1	75·1	81·8
11 „	77·5	81·4	85·5	86·8	89·7	86·8	84·8	81·4	81·7	83·0	80·5	77·0	83·0
Noon.	78·9	83·1	86·7	87·7	90·5	87·5	85·3	81·9	82·1	84·1	81·9	78·9	83·9
1 P. M.	79·8	83·5	87·5	88·3	90·8	87·8	85·7	81·8	82·4	84·8	82·7	80·2	84·6
2 „	80·4	84·0	87·7	88·5	91·0	87·4	85·9	81·5	82·2	85·4	83·3	80·8	84·8
3 „	80·6	84·4	87·8	88·5	90·7	86·9	85·7	81·7	82·0	85·6	83·2	80·8	84·8
4 „	80·2	84·1	87·3	87·8	90·3	85·9	84·8	80·8	81·7	85·3	82·4	80·1	84·2
5 „	78·1	82·6	85·9	85·8	88·6	85·0	83·7	80·1	80·6	83·5	80·4	77·5	82·6
6 „	76·4	80·1	83·4	83·8	86·6	83·8	82·7	79·5	79·4	82·1	79·0	76·1	81·1
7 „	75·6	78·5	82·2	82·8	85·3	83·2	82·2	79·2	79·1	81·5	78·5	75·3	80·3
8 „	74·9	77·7	81·7	82·3	84·6	82·8	81·8	79·1	78·9	80·9	78·0	74·7	79·8
9 „	73·9	76·7	80·9	81·8	84·3	82·2	81·6	78·9	78·5	80·0	77·1	73·2	79·1
10 „	73·3	76·0	80·1	81·5	84·0	81·8	81·4	78·8	78·2	79·4	75·8	71·8	78·5
11 „	72·7	75·3	79·6	81·1	83·8	81·7	81·2	78·9	77·8	78·9	74·9	70·8	78·1
Diurnal Range.	10·5	12·5	11·6	10·1	8·6	6·5	5·4	3·8	5·2	9·1	10·6	12·1	8·5

TABLE XLVI.—*Excess of Mean Hourly Temperature of Air in Contact with the Ground above the Monthly Mean Temperature.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	-2·3	-3·0	-2·7	-2·6	-2·6	-2·1	-1·3	-1·0	-1·6	-2·7	-2·5	-3·6	-2·3
1 A.M.	-2·9	-3·5	-3·2	-3·1	-3·3	-2·0	-1·6	1·0	-1·7	-2·9	-3·1	-3·8	-2·7
2 „	-3·4	-3·9	-3·6	-3·5	-3·0	-2·1	-1·8	1·2	-1·8	-3·0	-3·4	-4·3	-2·9
3 „	-3·6	-4·4	-3·9	-3·9	-3·3	-2·4	-1·9	1·4	-2·0	-3·2	-3·9	-4·6	-3·2
4 „	-4·2	-4·8	-4·4	-4·2	-3·5	-2·4	-2·1	1·6	-2·1	-3·5	-4·1	-4·8	-3·5
5 „	-4·4	-5·3	-5·0	-4·8	-3·8	-2·5	-2·0	-1·6	-2·2	-3 8	-4·4	-4·8	-3·7
6 „	-4·6	-5·9	-4·6	-4·8	-3·4	-2·3	-1·9	-1·1	-2·2	-4·1	-4·7	-5·1	-3·7
7 „	-4·4	-5·3	-4·4	-2·0	-1·6	-1·1	-1·0	-1·0	-1·3	-2·7	-3·9	-4·6	-2·8
8 „	-2·5	-3·0	-1·8	0·2	0·2	-0·2	-0·3	-0·1	-0·3	-1·2	-1·9	-2·4	-1·1
9 „	-0·5	-0·3	0·3	1·8	1·4	1·1	0·5	0·7	0·9	0·2	-0·1	0·5	0·5
10 „	1·2	1·9	1·8	2·8	2·5	2·4	1·4	1·3	1·5	1·2	1·6	1·3	1·7
11 „	2·8	3·7	3·7	3·6	3·6	3·1	2·1	1·7	2·3	2·3	3·0	3·2	2·9
Noon.	4·2	5·4	4·9	4·5	4·3	3·7	2·7	2·2	2·7	3·5	4·4	5·1	4·0
1 P.M.	5·1	5·8	5·7	5·1	4·7	4·0	3·1	2·1	3·0	4·1	5·2	6·4	4·5
2 „	5·8	6·3	5·9	5·3	4·8	3·6	3·2	1·8	2·8	4·7	5·8	7·0	4·7
3 „	5·9	6·7	6·0	5·3	4·5	3·1	3·0	2·0	2·7	5·0	5·8	7·0	4·7
4 „	5·5	6·4	5·5	4·6	4·1	2·2	2·1	1·1	2·3	4·7	4·9	6·3	4·1
5 „	3·5	4·9	4·1	2·6	2·4	1·2	1·2	0·4	1·2	2·8	2·9	3·7	2·6
6 „	1·7	2·4	1·6	0·6	0·5	0·1	0·1	-0·2	0·0	1·4	1·5	2·3	1·0
7 „	1·0	0·8	0·4	-0·4	-0·9	-0·5	-0·5	-0·5	-0·3	0·8	1·0	1·5	0·2
8 „	0·2	0·0	-0·1	-0·9	-1·6	-1·0	-0·9	-0·6	-0·4	0·3	0·5	0·8	-0·3
9 „	-0·7	-1·0	-0·9	-1·4	-1·9	-1·6	-1·1	-0·8	-0·9	-0·6	-0·3	-0·6	-1·0
10 „	-1·4	-1·8	-1·7	-1·8	-2·2	-1·8	-1·2	-0·9	-1·2	-1·2	-1·7	-2·0	-1·6
11 „	-2·0	-2·4	-2·3	-2·1	-2·4	-2·1	-1·5	-0·8	-1·6	-1·8	-2·6	-3·0	-2·1

TABLE XLVII.—*Mean Temperature of Air within the Observatory for each Day of Bombay Civil Time.*

Date, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	75°2		82°8	85°8	87°3		84°2	79°0	81°6	82°5		78°2
2	76·8	77°3		86·5	87·7	86°7	84·2		80·7	82·6	81°8	77·6
3	78·9	80·1	84·1	85·9		85·6	84·4	80·8	81·0	82·4	81·5	76·9
4		79·4	83·1	85·5	87·9	86·0	84·8	80·9	81·5		80·9	78·0
5	76·9	76·4	82·2		88·0	86·0			81·4	81·7	81·4	79·4
6	76·0	76·7	81·9	84·6	87·3	87·2	85·0	80·1		82·4	82·6	
7	75·0	77·7	81·6	84·2	86·7		84·5	80·9	81·6	82·6	84·3	77·7
8	77·3			83·6	86·7	87·7	84·9	81·0	80·7	83·2		76·7
9	78·0	78·0	81·9	83·3	87·3	87·6	85·3		80·4	83·4	84·2	77·0
10	78·9	78·1	81·3			87·4	85·5	80·2	79·6	83·1	83·2	76·7
11		79·2		82·8	87·9	86·8	86·0	80·3	81·3		82·3	76·3
12	80·0	80·6	82·1		87·6	86·5		81·0	81·0	82·8	81·5	77·2
13	79·2	80·5	82·8	83·8	87·6	86·6	86·2	81·6		81·9	81·6	
14	76·8	80·1	81·3	84·2	87·3		85·7	81·8	81·2	81·4	81·8	81·3
15	76·9			84·5	86·9	86·2	85·6		81·6	82·1		80·8
16	78·7	79·9	82·1	84·2	86·9	85·7	85·6		82·1	83·3	81·2	77·8
17	78·8	80·8	83·7	84·5		85·4	85·4	80·4	80·4		81·7	76·7
18		81·2	85·6	83·5	87·5	83·0	85·6	80·3	80·0		81·5	75·9
19	78·6	82·4	85·9		87·5	83·1		80·2	79·2	83·6	80·5	76·4
20	80·0	83·0	85·8	81·9	88·4	84·8	85·0	80·1		83·3	80·1	
21	81·5	81·4	85·1	82·3	87·9		85·0	79·5	80·0	83·6	79·7	77·8
22	81·5			83·9	87·8	85·5	84·1	80·6	80·3	84·0		77·6
23	79·8	81·2	85·5	84·8	88·1	82·6	84·3		81·2	83·6	78·8	77·1
24	78·9	82·1	85·4	84·7		82·2	85·0	81·5	81.2	83·2	79·3	77·1
25		83·1	85·0	84·6	88·1	82·6	83·1	81·9	80·7		78·7	
26	78·0	82·7	84·6		87·8	83·6		82·4	81·0	83·0	78·6	77·1
27	75·1	82·6	83·8	85·6	87·8	83·9	82·3	82·2		83·1	78·4	
28	73·4	89·2	84·6	86·3	87·3		80·2	82·1	81·7	82·8	78·5	77·0
29	74·4			86·1	88·4	84·3	80·2	82·1	81·8	82·9	77·9	77·3
30	75·5		85·5	86·7	88·5	84·3	80·0	82·3	82·0	82·4		77·1
31	76·1		85·5		88·5		81·2			82·0		77·1
Mean.	77·6	80·3	83·7	84·6	87·7	85·3	84·2	81·0	81·0	82·8	80·9	77·5

TABLE XLVIII.—*Mean Temperature of Air within the Observatory in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	76°5	79°0	82°7	83°6	86°5	84°5	83°4	80°4	80°2	81°6	79°7	75°8	81°2
1 A. M.	76·4	78·8	82·4	83·2	86·4	84·4	83·4	80·3	80·1	81·4	79·4	75·6	81·0
2 „	76·1	78·5	82·1	82·9	86·2	84·3	83·3	80·2	79·9	81·3	79·1	75·4	80·8
3 „	75·8	78·1	81·5	82·7	86·1	84·1	83·2	80·1	79·8	81·1	78·8	75·1	80·5
4 „	75·4	77·8	81·1	82·4	86·0	83·9	83·0	80·0	79·8	80·8	78·5	74·9	80·3
5 „	75·2	77·4	81·1	82·1	85·8	83·5	82·9	80·0	79·7	80·6	78·3	74·7	80·1
6 „	75·0	77·1	80·9	82·0	85·7	83·9	82·9	80·1	79·7	80·4	77·5	74·4	80·0
7 „	74·9	77·0	80·9	82·3	85·9	84·1	83·0	80·1	79·8	80·5	77·9	74·4	80·1
8 „	75·4	77·5	81·4	83·1	86·6	84·6	83·4	80·3	80·2	81·1	78·7	75·2	80·6
9 „	76·4	78·7	82·4	84·0	87·5	85·1	83·8	80·8	80·9	82·2	80·0	76·8	81·6
10 „	77·7	80·3	83·8	85·2	88·2	85·8	84·4	80·9	81·5	83·3	81·4	77·8	82·5
11 „	79·0	82·0	84·9	86·0	88·9	86·4	85·0	81·8	82·1	84·2	82·7	79·1	83·5
Noon.	79·9	82·9	85·9	86·6	89·5	86·8	85·4	82·2	82·6	84·9	83·4	80·3	84·2
1 P. M.	80·5	83·7	86·6	87·1	90·3	87·1	85·7	82·4	82·7	85·4	84·3	81·2	84·7
2 „	80·9	84·2	87·0	87·3	90·2	87·2	85·9	82·4	82·9	85·7	84·7	81·8	85·0
3 „	81·0	84·4	87·0	87·3	90·2	87·1	86·0	82·4	82·8	85·8	84·6	81·9	85·0
4 „	80·6	84·1	86·8	87·0	90·1	86·8	85·8	82·1	82·5	85·3	83·8	81·1	84·6
5 „	79·7	83·1	86·1	86·5	89·8	86·4	85·4	81·7	82·0	84·5	82·4	79·9	83·9
6 „	78·9	81·3	85·3	85·6	88·7	85·8	84·9	81·2	81·4	83·7	81·8	79·0	83·2
7 „	78·5	82·0	84·6	85·0	88·1	85·4	84·4	80·9	81·0	83·3	81·4	78·5	82·7
8 „	77·6	80·8	84·2	84·7	87·4	85·2	84·0	80·8	80·9	82·9	81·1	78·0	82·3
9 „	77·6	80·4	83·7	84·4	87·2	84·8	83·9	80·6	80·7	82·6	80·6	77·3	82·0
10 „	77·2	79·9	83·6	84·2	86·9	84·6	83·7	80·6	80·4	82·3	80·1	76·7	81·7
11 „	76·9	79.6	83·1	83·9	86·7	84·4	83·6	80·4	80·3	82·0	79·6	76·1	81·4
Diurnal Range.	6·1	7·4	6·1	5·3	4·6	3·3	3·1	2·4	3·2	5·4	7·2	7·5	5·0

TABLE XLIX.—*Excess of the Mean Hourly Temperature of Air within the Observatory above the Monthly Mean.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	−1°1	−1°3	−1°0	−1°0	−0°8	−0°8	−0°8	−0°4	−0°8	−1°2	−1°2	−1°7	−1°0
1 A.M.	−1·2	−1·5	−3·2	−1·4	−1·3	−0·9	−0·8	−0·7	−0·9	−1·4	−1·5	−1·9	−1·2
2 „	−1·5	−1·8	−1·6	−1·7	−1·5	−1·0	−0·9	−0·8	−1·1	−1·5	−1·8	−2·1	−1·4
3 „	−1·8	−2·2	−2·2	−1·9	−1·6	−1·2	−1·0	−0·9	−1·2	−1·7	−2·1	−2·4	−1·7
4 „	−2·2	−2·5	−2·6	−2·2	−1·7	−1·4	−1·2	−1·0	−1·2	−2·0	−2·4	−2·6	−1·9
5 „	−2·4	−2·9	−2·6	−2·5	−1·9	−1·8	−1·3	−1·0	−1·3	−2·2	−2·6	−2·8	−2·1
6 „	−2·6	−3·2	−2·8	−2·6	−2·0	−1·4	−1·3	−0·9	−1·3	−2·4	−3·4	−3·1	−2·2
7 „	−2·7	−3·3	−2·8	−2·3	−1·8	−1·2	−1·2	−0·9	−1·2	−2·3	−3·0	−3·1	−2·2
8 „	−2·2	−2·8	−2·3	−1·5	−1·1	−0·7	−0·8	−0·7	−0·8	−1·7	−2·2	−2·3	−1·6
9 „	−1·2	−1·6	−1·3	−0·6	−0·2	−0·2	−0·4	−0·2	−0·1	−0·6	−0·9	−0·7	−0·7
10 „	0·1	0·0	0·1	0·6	0·5	0·5	0·2	−0·1	0·5	0·5	0·5	0·3	0·3
11 „	1·4	1·7	1·2	1·4	1·2	1·1	0·8	0·8	1·1	1·4	1·8	1·6	1·3
Noon.	2·3	2·6	2·2	2·0	1·8	1·5	1·2	1·2	1·6	2·1	2·5	2·8	2·0
1 P.M.	2·9	3·4	2·9	2·5	2·6	1·8	1·5	1·4	1·7	2·6	3·4	3·7	2·5
2 „	3·3	3·9	3·3	2·7	2·5	1·9	1·7	1·4	1·9	2·9	3·8	4·3	2·8
3 „	3·4	4·1	3·3	2·7	2·5	1·8	1·8	1·4	1·8	3·0	3·7	4·4	2·8
4 „	3·0	3·8	3·1	2·4	2·4	1·5	1·6	1·1	1·5	2·5	2·9	3·6	2·4
5 „	2·1	2·8	2·4	1·9	2·1	1·1	1·2	0·7	1·0	1·7	1·5	2·4	1·8
6 „	1·3	1·7	1·6	1·0	1·0	0·5	0·7	0·2	0·4	0·9	0·9	1·5	1.0
7 „	0·9	1·0	0·9	0·4	0·4	0·1	0·2	−0·1	0·0	0·5	0·5	1·0	0·4
8 „	0·0	0·5	0·5	0·1	−0·3	−0·1	−0·2	−0·2	−0·1	0·1	0·2	0·5	0·1
9 „	0·0	0·1	0·0	−0·2	−0·5	−0·5	−0·5	−0·4	−0·3	−0·2	−0·3	−0·2	−0·2
10 „	−0·4	−0·4	−0·1	−0·4	−0·8	−0·7	−0·5	−0·4	−0·6	−0·5	−0·8	−0·8	−0·5
11 „	−0·7	−0·7	−0·6	−0·7	−1·0	−0·9	−0·6	−0·6	−0·7	−0·8	−1·3	−1·4	−0·8

TABLE L.—*Mean Temperature of Ground Six Inches below the Surface of the Earth, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
1	74°6		79°6	83°2	84°5		83°3	79°5	80°8	80°1		75°7
2	75·3	75°1		83·6	85·0	85°1	83·2		80·1	80·3	79°5	75·3
3	76·5	76·2	80·2	83·4		84·1	83·3	80·3	80·0	80·6	79·5	74·9
4		76·6	79·9	83·2	85·0	84·6	83·5	80·6	80·2		79·0	75·2
5	76·5	75·2	79·8		85·2	84·8			80·1	80·3	79·5	76·1
6	75·5	74·9	79·6	82·6	85·1	84·9	83·5	80·0		80·9	80·1	
7	74·5	75·0	79·5	82·2	84·9		83·4	80·4	80·0	80·1	80·7	75·3
8	75·1			82·0	84·9	85·1	83·6	80·5	79·6	81·3		74·5
9	75·6	75·6	79·5	81·8	85·0	85·2	83·7		79·6	81·2	80·9	74·6
10	76·0	76·1	79·3			85·3	84·1	80·1	79·2	81·2	80·2	74·2
11		76·5		81·4	85·0	85·0	84·2	80·0	79·6		79·3	73·7
12	76·6	77·3	79·2		85·2	84·4		80·4	79·8	81·0	78·7	74·5
13	76·4	77·6	79·8	82·1	85·3	84·5	84·2	80·7		80·5	78·7	
14	75·6	77·4	79·4	82·5	85·2		83·9	80·8	79·7	80·0	78·6	77·2
15	75·0			82·7	85·1	84·7	83·8		79·8	80·4		77·3
16	75·9	77·1	79·9	82·6	85·0	84·7	83·7		80·3	81·0	77·9	75·6
17	75·9	77·6	80·7	82·7		84·5	83·7	80·0	79·6		78·5	74·8
18		77·8	81·9	82·2	85·0	83·2	83·7	79·9	79·3		78·4	74·0
19	76·2	78·5	82·3		85·1	83·0		79·9	78·8	81·0	77·5	74·1
20	76·7	78·9	82·2	80·8	85·4	83·6	83·3	79·6		81·0	77·2	
21	77·9	78·6	82·2	80·6	85·6		83·1	79·4	79·2	81·1	76·9	74·2
22	77·9			81·8	85·7	84·4	82·2	79·8	79·3	81·3		74·8
23	77·2	78·5	82·2	82·0	85·8	83·0	82·5		79·7	80·8	76·2	74·7
24	76·4	78·8	82·5	82·1		82·2	83·0	80·4	79·7	80·4	76·3	74·5
25		79·6	82·5	82·2	85·5	82·4	81·9	80·6	79·3		76·0	
26	75·9	79·5	82·7		85·2	83·0		80·8	79·5	80·2	75·8	74·3
27	74·8	79·2	81·9	83·2	85·4	83·1	81·5	80·8		80·1	75·6	
28	73·5	79·4	82·3	83·7	84·9		80·2	80·8	80·1	80·0	75·8	74·0
29	73·7			83·7	85·9	83·3	80·1	80·8	80·2	80·1	75·9	74·1
30	73·8		82·6	84·2	86·1	83·4	79·8	80·9	80·2	79·8		74·0
31	74·0		82·9		85·9		80·7			79·7		74·1
Mean	75·7	77·4	81·0	82·5	85·3	84·0	82·9	80·3	79·8	80·6	78·1	74·8

TABLE LI.—*Mean Temperature of Ground Six Inches below the Surface of the Earth in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	75°7	77°2	8°08	82°3	85°0	83°8	82°8	80°1	79·5	80°4	77°9	74°6	80°0
1 A. M.	75·4	77·1	80·7	82·1	84·9	83·8	82·7	80·0	79·4	80·1	77·7	74·4	79·9
2 „	75·3	76·9	80·6	82·0	84·8	83·7	82·6	80·0	79·4	80·0	77·6	74·1	79·8
3 „	75·1	76·7	80·4	81·8	84·7	83·6	82·5	80·0	79·3	79·9	77·4	73·9	79·6
4 „	75·0	76·6	80·3	81·7	84·6	83·5	82·4	79·9	79·2	79·8	77·2	73·8	79·5
5 „	74·8	76·3	80·1	81·6	84·4	83·4	82·4	79·9	79·1	79·6	77·0	73·6	79·3
6 „	74·7	76·1	79·9	81·4	84·3	83·4	82·3	79·9	79·0	79·5	76·9	73.4	79·2
7 „	74·6	75·9	79·7	81·5	84·5	83·5	82·3	79·8	79·2	79·5	76·7	73·3	79·2
8 „	74·7	76·0	80·0	81·9	84·7	83·6	82·5	79·9	79·3	79·8	77·0	73·6	79·4
9 „	74·8	76·5	80·2	82·1	85·0	83·8	82·6	80·1	79·6	80·0	77·4	73·9	79·7
10 „	75·2	76·8	80·4	82·4	85·2	84·0	82·8	80·3	79·8	80·3	77·7	74·3	79·9
11 „	75·7	77·2	80·7	82·6	85·4	84·2	83·0	8 0·5	80·0	80·6	78·0	74·7	80·2
Noon.	75·8	77·6	81·2	82·9	85·6	84·4	83·1	80·7	80·1	80·9	78·4	75·2	80·5
1 P. M.	76·0	78·0	81·5	83·0	85·8	84·7	83·2	80·8	80·3	81·2	78·8	75·6	80·7
2 „	76·3	78·2	81·8	83·2	86·0	84·7	83·4	80·8	80·4	81·4	79·1	76·0	80·9
3 „	76·5	78·5	82·0	83·4	86·1	84·7	83·5	80·8	80·5	81·6	79·3	76·2	81·1
4 „	76·6	78·7	82·1	83·4	86·2	84·7	83·4	80·7	80·5	81·7	79·4	76·4	81·2
5 „	76·7	78·6	82·1	83·5	86·1	84·6	83·4	80·6	80·4	81·7	79·2	76·2	81·1
6 „	76·5	78·4	81·9	83·2	85·9	84·5	83·2	80·5	80·2	81·4	78·9	76·0	80·9
7 „	76·3	78·2	81·7	83·0	85·7	84·3	83·2	80 ·4	80·1	81·3	78·8	75·9	80·8
8 „	76·3	78·1	81·6	82·9	85·5	84·2	83·0	80·3	79·9	81·1	78·8	75·7	80·6
9 „	76·1	78·0	81·4	82·8	85·4	84·0	82·9	80·3	79·8	80·9	78·6	75·6	80·5
10 „	75·8	77·7	81·2	82·6	85·3	83·9	82·8	80·2	79·7	80·8	78·3	75·2	80·3
11 „	75·8	77·4	81·1	82·5	85·2	83·8	82·7	80·2	79·6	80·6	78·0	74·8	80·1
Diurnal Range.	2·1	2·8	2·4	2·1	1·9	1·3	1·2	1·0	1·5	2·2	2·7	3·1	2·0

TABLE LII.—*Excess of the Mean Hourly Temperature of Ground Six Inches below the Surface of the Earth above the Monthly Mean Temperature.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	-0°0	-0°1	-0°2	-0°2	-0°3	-0°2	-0°1	-0°2	-0°2	-0°2	-0°2	-0°2	-0°2
1 A.M.	-0·2	-0·3	-0·3	-0·4	-0·4	-0·2	-0·2	-0·2	-0·3	-0·4	-0·4	-0·5	-0·3
2 „	-0·4	-0·5	-0·4	-0·6	-0·5	-0·3	-0·3	-0·3	-0·4	-0·5	-0·5	-0·7	-0·4
3 „	-0·5	-0·6	-0·6	-0·7	-0·6	-0·4	-0·4	-0·3	-0·5	-0·7	-0·7	-0·9	-0·6
4 „	-0·7	-0·8	-0·7	-0·8	-0·7	-0·5	-0·5	-0·4	-0·6	-0·8	-0·9	-1·1	-0·7
5 „	-0·8	-1·1	-0·9	-0·9	-0·9	-0·6	-0·5	-0·4	-0·6	-0·9	-1·1	-1·2	-0·8
6 „	-1·0	-1·3	-1·1	-1·1	-0·9	-0·7	-0·5	-0·4	-0·7	-1·1	-1·2	-1·4	-0·9
7 „	-1·1	-1·5	-1·3	-1·0	-0·8	-0·5	-0·5	-0·5	-0·6	-1·0	-1·4	-1·5	-1·0
8 „	-1·0	-1·3	-1·0	-0·7	-0·6	-0·4	-0·4	-0·4	-0·4	-0·8	-1·1	-1·3	-0·8
9 „	-0·9	-0·9	-0·8	-0·4	-0·3	-0·3	-0·2	-0·2	-0·2	-0·5	-0·7	-0·9	-0·5
10 „	-0·5	-0·6	-0·6	-0·1	-0·1	0·0	-0·1	0·0	0·0	-0·3	-0·4	-0·5	-0·3
11 „	0·0	-0·2	-0·3	0·1	0·1	0·2	0·1	0·2	0·2	0·0	-0·1	-0·1	0·0
Noon.	0·2	0·2	0·2	0·4	0·4	0·4	0·3	0·4	0·3	0·3	0·3	0·3	0·3
1 P.M.	0·4	0·6	0·5	0·5	0·6	0·7	0·3	0·5	0·5	0·6	0·7	0·8	0·6
2 „	0·6	0·9	0·8	0·7	0·8	0·7	0·5	0·5	0·6	0·8	1·0	1·2	0·8
3 „	0·8	1·1	1·0	0·9	0·8	0·7	0·6	0·5	0·7	1·0	1·2	1·4	0·9
4 „	1·0	1·3	1·1	0·9	0·9	0·7	0·5	0·4	0·7	1·1	1·3	1·6	1·0
5 „	1·0	1·2	1·2	1·0	0·8	0·6	0·5	0·3	0·6	1·1	1·1	1·4	0·9
6 „	0·8	1·0	0·9	0·7	0·6	0·5	0·4	0·2	0·4	0·8	0·8	1·2	0·7
7 „	0·7	0·8	0·7	0·5	0·4	0·3	0·3	0·1	0·3	0·7	0·7	1·1	0·5
8 „	0·6	0·7	0·6	0·4	0·2	0·2	0·1	0·0	0·1	0·5	0·7	0·9	0·4
9 „	0·5	0·6	0·4	0·3	0·1	0·0	0·0	0·0	0·0	0·4	0·5	0·7	0·3
10 „	0·9	0·3	0·2	0·1	0·0	-0·1	-0·1	-0·1	-0·1	0·2	0·2	0·4	0·2
11 „	0·1	0·0	0·1	0·0	-0·1	-0·2	-0·2	-0·1	-0·2	0·0	-0·1	0·0	-0·1

TABLE LIII.—*Mean Temperature of Ground Twenty Inches below the Surface of the Earth for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	78°0		77°6	81°5	82°3		84°1	82°8	81°5	80°4		78°4
2	78·0	77°8		81·5	82·5	84°9	84·1		81·5	80·6	80°8	78·3
3	78·0	77·8	78·1	81·7	•	85·0	84·0	82·8	81·5	80·7	80·7	78·1
4		77·8	78·5	81·9	82·6	85·0	84·0	82·8	81·4		80·6	78·0
5	78·0	77·8	78·6		82·8	85·0			81·3	80·7	80·6	78·0
6	78·0	77·8	78·8	82·0	82·8	85·0	84·0	82·7		80·7	80·5	
7	78·0	77·8	78·9	82·1	82·9		84·0	82·4	81·2	80·9	80·6	78·0
8	78·0			82·1	83·3	85·0	84·0	82·2	81·2	81·0		78·0
9	78·0	77·8	79·0	82·1	83·5	84·8	84·0		81·3	81·0	80·9	77·8
10	78·0	77·8	79·0			84·8	84·0	82·2	81·1	81·0	81·0	77·7
11		77·6		82·1	83·7	84·8	84·0	82·0	81·0		81·0	77·7
12	78·0	77·6	79·0		83·8	84 9		82·0	81·0	81·2	81·0	77·5
13	78·0	77·6	79·2	82·1	84·0	85·0	84·0	82·0		81·1	80·8	
14	78·0	77·6	79·4	82·1	84·0		84·0	81·9	80·9	81·0	80·6	77·5
15	78·0			82·1	84·0	85·0	84·0		80·8	81·0		77·7
16	78·0	77·6	79·5	82·1	84·0	85·0	84·0		80·8	81·0	80·5	77·8
17	78·0	77·6	79·5	82·1		85·0	84·0	81·9	80·8		80·2	77·8
18		77·6	79·7	82·1	84·0	85·0	84·0	81·9	80·7		80·0	77·5
19	78·0	77·5	80·0		84·0	85·0		81·8	80·6	81·0	80·0	77·5
20	78·0	77·5	80·1	82·1	84·1	85·0	84·0	81·7		80·9	80·0	
21	78·0	77·6	80·4	82·1	84·2		84·0	81·5	80·5	80·9	79·6	77·2
22	78·0			82·0	84·3	85·0	84·0	81·3	80·4	80·9		77·0
23	78·0	77·6	80·8	82·1	84·5	84·9	84·0		80·4	80·9	79·3	77·0
24	78·0	77·6	81·0	82·2		84·8	84·0	81·2	80.4	81·0	79·2	77·0
25		77·6	81·0	82·0	84·6	84·3	83·9	81·1	80·4		79·2	
26	78·0	77·6	81·1		84·8	84·2		81·1	80·4	81·1	79·1	77·0
27	78·0	77·6	81·2	82·1	84·8	84·2	83·8	81·1		81·0	78·9	
28	78·0	77·6	81·3	82·1	84·7		83·8	81·1	80·3	81·0	78·8	77·0
29	78·0			82·2	84·6	84·2	83·4	81·1	80·3	81·0	78·7	77·0
30	78·0		81·3	82·3	84·8	84·1	83·0	81·3	80·3	80·9		77·0
31	78·0		81·4		84·9		82·9			80·9		77·0
Mean.	78·0	77·7	79·8	82·0	83·9	84·8	83·2	81·8	80·8	80·9	80·1	77·6

TABLE LIV.—*Mean Temperature of Ground Sixty Inches below the Surface of the Earth, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
1	82°0		81°0	82°1	83°4		85°7	85°0	83°8	82°9		81°9
2	82·0	81°0		82·1	83·5	85°2	85·7		83·8	83·0	82°8	82·0
3	82·0	81·0	81·0	82·2		85·2	85·6	85·0	83·8	83·0	82·6	81·9
4		81·0	81·0	82·3	83·5	85·2	85·6	85·0	83·7		82·5	81·8
5	82·0	81·0	81·0		83·6	85·2			83·6	83·0	82·5	81·8
6	82·0	81·0	81·0	82·3	83·6	85·2	85·6	85·0		83·0	82·5	
7	81·8	81·0	81·0	82·4	83·7		85·6	85·0	83·5	83·1	82·5	81·8
8	81·6			82·4	83·8	85·3	85·6	85·0	83·5	83·1		81·8
9	81·6	81·0	81·0	82·4	83·8	85·4	85·6		83·6	83·0	82·8	81·6
10	81·6	81·0	81·0			85·4	85·6	85·0	83·5	83·0	82·9	81·5
11		81·0		82·4	83·9	85·4	85·5	85·0	83·4		82·9	81·5
12	81·5	81·0	81·0		84·0	85·5		85·0	83·4	83·0	83·0	81·3
13	81·4	81·0	81·1	82·6	84·0	85·6	85·5	84·9		82·9	82·8	
14	81·4	81·0	81·2	82·7	84·0		85·5	84·8	83·3	82·8	82·6	81·3
15	81·2			82·8	84·0	85·6	85·5		83·2	82·8		81·4
16	81·2	81·0	81·3	82·8	84·0	85·7	85·5		83·2	82·8	82·6	81·4
17	81·2	81·0	81·3	82·8		85·8	85·5	84·8	83·2		82·6	81·4
18		81·0	81·4	82·9	84·0	85·8	85·5	84·8	83·1		82·5	81·1
19	81·2	81·0	81·5		84·2	85·8		84·7	83·1	82·8	82·5	81·0
20	81·2	81·0	81·5	83·0	84·3	85·8	85·5	84·5		82·7	82·5	
21	81·2	81·0	81·6	83·0	84·3		85·4	84·4	83·0	82·7	82·3	80·8
22	81·2			83·0	84·5	85·8	85·3	84·2	83·0	82·7		80·7
23	81·2	81·0	81·7	83·0	84·7	85·8	85·2		83·0	82·7	82·4	80·7
24	81·2	81·0	81·8	83·0		85·8	85·1	84·0	83·0	82·8	82·5	80·7
25		81·0	81·8	83·0	84·8	85·7	85·0	84·0	83·0		82·5	
26	81·2	81·0	81·9		85·0	85·7		84·0	83·0	82·9	82·4	80·8
27	81·1	81·0	81·9	83·1	85·0	85·7	85·0	83·9		82·9	82·3	
28	81·0	81·0	82·0	83·2	85·0		85·0	83·9	82·9	82·8	82·1	80·9
29	81·0			83·3	85·0	85·7	85·0	83·9	82·9	82·8	82·0	80·9
30	81·0		82·0	83·3	85·1	85·7	85·0	83·9	82·9	82·8		80·9
31	81·0		82·0		85·2		85·0			82·8		81·4
Mean.	81·4	81·0	81·4	82·7	84·2	85·6	85·4	84·6	83·3	82·9	82·5	81·3

HYGROMETRIC STATE OF THE ATMOSPHERIC AIR.

From the Temperature of Evaporation (Wet Bulb Thermometer), and the Temperature of External and Free Air, will be found out the elements which go under the head Hygrometric State of Air.

1. Dew-point.
2. Humidity of air.
3. Pressure of moisture.
4. Pressure of supposed dry air.
5. Weight of a cubic foot of common air.
6. Weight of vapour in a cubic foot of common air.
7. Weight of vapour required for complete saturation of a cubic foot of air.
8. Quantity of water actually evaporated in atmospheric air.

No days were considered as abnormal in finding out the following results.

TABLE LV.—*Mean Temperature of Evaporation, or Wet Bulb Thermometer, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	68°1		74°2	75°5	81°5		78°7	76°0	77°0	76°5		68°3
2	70·1	67°5		74·7	83·0	78°9	78·6		76·6	76·6	75°1	67·7
3	72·6	71·6	76·2	75·5		78·4	78·2	77·8	76·3	77·2	74·0	66·9
4		70·5	74·7	75·6	82·6	78·1	78·5	77·5	76·9		72·1	68·9
5	71·2	65·5	75·1		83·0	77·3			76·5	77·8	74·3	67·4
6	67·0	66·1	74·1	75·1	82·2	76·7	79·3	77·0		78·4	76·5	
7	65·2	67·9	72·3	76·0	82·5		78·9	77·5	76·9	77·7	78·5	65·2
8	69·6			75·9	82·2	78·4	79·5	77·6	75·9	78·6		63·8
9	70·4	68·8	75·7	76·2	79·9	78·1	79·7		76·4	77·6	76·2	64·3
10	70·9	68·4	74·1			78·0	79·6	76·9	75·5	78·0	72·3	63·2
11		68·7		73·4	78·4	78·2	79·0	77·1	76·2		70·6	63·4
12	71·0	69·4	75·1		78·7	78·9		77·7	76·1	75·4	71·1	66·1
13	70·6	69·8	76·2	77·1	79·2	79·0	78·8	77·7		73·4	70·9	
14	67·8	71·5	75·4	77·9	78·9		78·3	77·6	76·2	74·0	70·5	73·0
15	67·7			78·0	78·7	79·8	78·6		76·6	76·9		71·2
16	69·8	71·8	76·4	76·4	78·2	79·4	78·9		77·0	77·2	69·7	65·6
17	68·6	71·9	75·7	75·2		79·9	79·2	77·1	76·4		70·2	66·7
18		72·0	74·8	75·1	78·0	78·0	79·2	77·2	76·1		68·0	65·2
19	69·8	73·4	72·9		77·9	78·2		77·0	76·0	77·7	67·7	66·5
20	70·5	74·8	75·6	71·2	79·5	80·1	78·9	76·8		77·8	67·6	
21	71·4	74·9	77·9	73·0	79·9		78·9	76·0	77·2	76·2	66·0	67·3
22	70·9			75·9	79·4	79·9	79·0	77·2	77·0	75·9		67·8
23	68·8	72·0	74·9	76·6	79·1	78·4	79·2		76·4	73·6	66·1	66·8
24	67·6	73·4	73·5	77·1		77·9	79·6	77·2	76·2	73·2	67·0	66·5
25		74·8	74·8	78·2	79·0	79·0	78·0	77·5	75·6		68·4	
26	69·1	72·2	75·7		79·1	79·3		77·7	76·1	71·9	68·6	66·3
27	64·6	70·9	75·8	80·1	79·6	79·6	77·0	77·4		72·5	69·1	
28	63·2	72·2	76·7	80·2	79·9		76·2	77·1	75·8	74·2	70·3	64·3
29	64·1			80·3	80·5	79·5	77·0	77·1	76·0	74·9	69·6	64·8
30	64·9		77·7	80·8	79·9	79·3	77·8	77·0	76·0	74·4		65·0
31	66·1		77·4		78·7		78·2			74·6		65·8

TABLE LVI.—*Showing the Number of Instances in which the Difference between the Mean Daily Values of Wet Bulb Thermometer was within certain Limits.*

Difference between the Mean Daily Values of Wet Bulb Thermometer.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole number of cases in the Year.
Greater than 0° and less than 1°	10	10	8	15	21	19	24	21	23	17	12	10	190
„ 1 „ 2	8	9	11	5	4	5	2	2	2	4	6	9	67
„ 2 „ 3	5	2	3	2	1					4	5	4	26
„ 3 „ 4			2	2							1		5
„ 4 „ 5	3	1											4
„ 5 „ 6		1										1	2
„ 6 „ 7												1	1

It appears from this Table, that out of 307 instances, there were 190 in which the difference between the Mean Daily Temperature of Evaporation, on two consecutive days, was less than 1°; there were 102 instances in which the difference was greater than 1° and less than 5°; and only 3 instances in which the difference was greater than 5°.

TABLE LVII.—*Showing the Greatest and Least Mean Daily Values of Evaporation in each Month, and the time of their occurrence.*

Months, 1857.	Mean Daily Values of Evaporation.		Difference.	The Day on which the Extreme Values occurred.	
	Greatest.	Least.		Greatest.	Least.
				D.	D.
January	72°6	63°2	9°4	3	28
February	74·9	65·5	9·4	21	5
March	77·9	72·3	5·6	21	7
April	80·8	71·2	9·6	30	20
May	83·0	77·9	5·1	2 & 5	19
June	80·1	76·7	3·4	20	6
July	79·7	76·2	3·5	9	28
August	77·8	76·0	1·8	3	1 & 21
September	77·2	75·5	1·7	21	10
October	78·6	71·9	6·7	8	26
November	78·5	66·0	12·5	7	21
December	73·0	63·2	9·8	14	10

The greatest difference between the mean daily values of the temperature of evaporation was 19°8, being about 0°4 higher than the difference of the last year. The times of the greatest and least mean daily temperature of Wet Bulb were not constant.

TABLE LVIII.—*Showing the Greatest and Least Differences of the Daily Values of two Consecutive Days, in each Month of the Year* 1857.

Months, 1857.	Difference between the Mean Daily Values.		Difference.	The Day on which the Extreme Difference occurred.	
	Greatest.	Least.		Greatest.	Least.
				D. D.	D. D.
January	4°5	0°1	4°4	26 & 27	14 & 15
February.....	5·0	0·1	4·9	4 & 5	3 instances.
March.....	3·4	0·1	3·3	7 & 9	26 & 27
April	3·9	0·1	3·8	18 & 20	6 instances.
May.....	2·3	0·1	2·2	8 & 9	3 instances.
June	1·9	0·1	1·8	17 & 18	3 instances.
July.....	1·6	0·0	1·6	24 & 25	17 & 18 / 20 & 21
August.....	1·8	0·0	1·8	1 & 3	3 instances.
September	1·2	0·0	1·2	21 & 19	29 & 30
October	2·9	0·1	2·8	14 & 15	1 & 2 / 19 & 20
November	3·9	0·1	3·8	9 & 10	2 instances.
December	6·9	0·2	6·7	12 & 14	3 instances.

The greatest difference between the daily mean Temperature of Evaporation on two consecutive days was 6°7, being about 1° higher than the greatest difference during the last year.

TABLE LIX.—*Showing, for the Year* 1857, *the Hours of Bombay Civil Time at which the Greatest and Least Temperature of Evaporation occurred in each Month, in the Simple Hourly Observations.*

Months, 1857.	Temperature of Evaporation.		Range.	The Time at which the Temperature of Evaporation was at its	
	Greatest.	Least.		Greatest.	Least.
				D. H.	D. H.
January	76°3	57°8	18°5	21 2 P. M.	7 6 A. M.
February.....	81·0	60·6	20·4	24 2 „	5 6 „
March.....	82.2	66·8	15·4	18 2 „	7 6 „
April	84·8	68·0	16·8	28 1 „	4 11 P. M.
May.....	85·4	74·2	11·2	5 1 „	27 8 „
June.....	83·2	73·7	9·5	15 Noon.	6 5 A. M.
July.....	82·6	75·0	7·6	24 2 P. M.	Several instances.
August.....	80·3	73·8	6·5	13 1 „	21·7 A.M.&8 P.M.
September	80·0	73·2	6·8	21 9 A. M.	26 6 A. M.
October	82·4	65·6	16·8	10 4 P. M.	27 Midnight.
November	81·0	62·4	18·6	7 4 „	23 7 A. M.
December.....	77·6	59·0	18·6	14 3 „	16 3 „ / 28 1 „

The greatest range of the Temperature of Evaporation was 27°6, being the difference of 85·4 on the 5th of May and 57·8 on the 7th of January. The greatest range was about 1°2 lower than the range of the last year.

TABLE LX.—*Showing, for each Month, the Mean Temperature of Evaporation, or Wet Bulb Thermometer, and its Difference from the Mean of the last Eleven Years.*

Months, 1857.	Mean Temperature of Evaporation.	Difference from the Mean of the last Eleven Years.	FOR SEASONS.
January	68°6	1°6	Mean of {Jan. Feb. Mar. / Oct. Nov. Dec.} or Winter .... 71°3
February	70·8	1·9	
March	75·3	2·0	
April	76·4	0·0	Mean of {Apr. May, June, / July, Aug. Sept.} or Summer.... 77·8
May	80·0	1·2	
June.....	78·7	− 0·5	Mean of the year ..... 74·5
July	78·1	− 0·3	
August.....	77·2	0·0	
September	76·3	− 0·4	Greatest monthly mean, in May ..... 80·0
October	75·8	− 1·1	Least monthly mean, in December ..... 66·5
November	70·8	− 1·6	
December.....	66·5	− 2·5	Difference ..... 13·5

The monthly means during this year did not fluctuate more 2°5 from the normal mean, or the mean obtained from the observations of the last eleven years.

TABLE LXI.—*Showing Daily Range of Evaporation for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	6°3		9°0	10°1	6°3		4°5	3°1	4°8	4°0		5°8
2	7·5	11°3		8·3	4·3	5·4	6·0		5·8	3·6	6·0	9·2
3	4·0	5·0	8·6	5·6		3·2	6·4	3·0	5·1	3·2	8·0	9·2
4		12·0	8·2	12·2	6·0	5·9	4·8	2·7	4·3		8·8	9·0
5	3·7	9·9	10·1		4·3	5·0			5·5	4·9	9·4	8·7
6	6·1	7·0	10·0	5·2	4·8	5·5	4·3	3·4		3·2	7·8	
7	12·6	6·3	10·4	6·9	4·4		4·7	3·0	5·3	4·6	5·0	5·4
8	6·6			5·8	5·0	5·7	4·5	3·0	3·4	6·0		6·5
9	7·4	11·3	6·3	6·2	3·0	3·7	5·0		4·0	6·5	6·0	6·9
10	7·3	11·1	7·8			3·1	3·3	1·8	3·0	9·4	5·0	6·2
11		13·6		5·4	4·6	3·8	3·7	2·8	4·5		5·4	5·9
12	4·3	15·7	9·6		4·0	7·4		3·4	4·6	7·5	6·4	11·7
13	6·8	13·2	4·2	6·2	3·7	7·4	3·3	5·1		7·5	7·2	
14	6·3	10·5	6·8	5·2	3·9		3·8	4·8	5·9	8·5	6·3	8·6
15	11·4			5·1	3·4	5·3	3·6		5·2	6·6		13·6
16	6·4	10·5	8·5	3·8	4·0	4·2	4·4		4·2	7·4	6·5	10·2
17	7·0	12·2	6·5	4·3		4·2	4·9	3·4	8·4		8·8	9·8
18		8·8	13·4	3·6	2·9	4·0	3·6	4·0	2·4		8·2	11·3
19	9·1	11·6	9·0		3·9	6·5		3·9	3·4	7·0	7·1	8·2
20	6·4	9·3	10·7	4·6	4·7	5·2	3·6	3·6		5·9	7·4	
21	9·3	9·2	5·2	8·4	3·6		5·0	4·2	5·0	7·1	8·3	15·2
22	6·4			6·6	3·5	4·5	4·6	5·8	4·7	5·5		9·8
23	7·1	14·4	4·8	8·0	3·2	4·6	5·4		4·4	7·5	7·8	11·0
24	9·5	15·4	8·4	5·2		4·4	5·2	4·2	4·7	9·5	7·8	8·2
25		10·1	6·9	7·6	6·2	4·5	3·6	4·4	5·6		7·3	
26	7·7	12·1	4·8		4·7	3·8		5·0	4·2	9·3	7·0	11·0
27	5·2	16·3	7·3	6·8	8·6	3·5	4·5	4·7		11·4	6·8	
28	9·0	13·2	7·8	8·4	5·0		2·2	3·0	4·0	6·9	5·8	13·4
29	10·6			6·8	3·5	3·5	4·5	3·6	4·2	5·6	4·3	9·0
30	10·2		5·3	9·2	3·6	4·2	4·3	3·8	5·1	8·0		9·0
31	9·2		3·2		3·8		5·0			7·5		11·0

TABLE LXII.—*Showing the Number of Instances in which the Daily Range of Evaporation was within Certain Limits.*

Daily Range of Evaporation in 1857.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Whole Number of Cases in the Year.
Greater than 2° and less than 3°					1		1	2	2				6
„ 3 „ 4	1		1	2	11	7	8	12	3	3			48
„ 4 „ 5	2		3	2	9	8	11	6	12	3	1		57
„ 5 „ 6	1	1	2	7	2	7	5	3	9	3	4	3	47
„ 6 „ 7	8	2	4	6	3	1	2			4	6	3	39
„ 7 „ 8	6	1	3	1		2				7	8		28
„ 8 „ 9		1	4	4	1					2	5	4	21
„ 9 „ 10	5	3	3	1						3	1	7	23
„ 10 „ 11	2	3	4	1								1	11
„ 11 „ 17	2	14	1	1						1		8	27

It appears from this table that, out of 307 instances, there were 111 in which the daily range of the temperature of evaporation, was less than 5° and greater than 2°; there were 158 instances in which the range was greater than 5° and less than 10°; and 38 instances in which it was greater than 10° and less than 17°. In no case the range was less than 2° Fahr. This table also shows that the temperature of evaporation is more uniform in Summer than in Winter.

TABLE LXIII.—*Showing the Greatest and Least Range of Evaporation, in each Month of the Year* 1857.

Months, 1857.	Daily Range of Evaporation.		Difference.	The Day on which the Range of Evaporation was	
	Greatest.	Least.		Greatest.	Least.
				D.	D.
January	12°6	3°7	8°9	7	5
February	16·3	5·0	11·3	27	3
March	13·4	3·2	10·2	18	21
April	12·2	3·6	8·6	4	18
May	8·6	2·9	5·7	27	18
June	7·4	3·1	4·3	12 & 13	10
July	6·4	2·2	4·2	3	28
August	5·8	1·8	4·0	22	10
September	5·9	2·4	3·5	14	17 & 18
October	11·4	3·2	8·2	27	3 & 6
November	9·4	4·3	5·1	5	29
December	15·2	5·4	9·8	21	7

The difference between the highest and lowest range during this year was 14°5, being about 1°5 higher than the difference of the last year. The ranges were generally greater in Winter than in Summer.

TABLE LXIV.—*Showing the Mean Monthly Range of Evaporation.*

Months, 1857.	Mean Range of Evaporation.		FOR SEASONS.	
	Mean Range.	Excess above the Annual Mean.		
January	7°5	1°0		
February	11·3	4·8	Mean for Winter	8·3
March	7·7	1·2	Mean for Summer	4·7
April	6·6	0·1		
May	4·4	− 2·1	Annual mean	6·5
June	4·7	− 1·8		
July	4·4	− 2·1	Greatest monthly mean, in February	11·3
August	3·7	− 2·8	Least monthly mean, in August	3·7
September	4·4	− 2·1		
October	6·7	0·2	Difference	7·6
November	7·0	0·5,		
December	9·4	2·9		

TABLE LXV.—*Mean Temperature of Evaporation or Wet Bulb Thermometer, in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	67°7	68°8	74°9	75°7	79°1	77°6	77°8	76°5	75°6	74°8	70°5	64°4	Midnight.
1 A. M.	67·5	68·9	74·6	75·4	78·9	77·7	77·9	76·7	75·2	74·2	70·1	64·2	1 A. M.
2 „	67·1	69·0	74·2	75·2	78·8	77·7	77·8	76·5	75·3	74·5	70·0	64·1	2 „
3 „	66·8	68·2	74·5	74·9	78·5	77·7	77·8	76·4	75·3	74·2	69·4	63·8	3 „
4 „	66·1	67·6	73·8	74·5	78·4	77·6	77·7	76·3	75·1	73·7	69·0	64·1	4 „
5 „	65·9	66·9	72·9	73·8	78·5	77·6	77·6	76·6	75·2	73·4	68·8	64·0	5 „
6 „	65·9	66·6	72·1	74·1	78·7	77·7	77·7	76·8	75·4	73·4	68·0	63·7	6 „
7 „	65·9	67·1	73·0	85·1	79·4	78·3	78·0	76·8	76·1	74·6	68·6	64·1	7 „
8 „	67·3	68·7	73·9	86·3	80·1	79·1	78·2	77·4	76·7	75·1	69·3	65·1	8 „
9 „	68·0	69·4	74·4	76·8	80·4	79·6	79·1	77·8	77·5	75·7	70·2	65·9	9 „
10 „	68·7	70·4	75·3	77·2	80·9	80·3	79·4	78·2	77·7	76·2	70·8	66·4	10 „
11 „	69·0	71·7	76·2	78·0	81·4	80·3	79·9	78·4	77·9	76·3	71·3	66·3	11 „
Noon.	69·4	73·3	76·8	78·4	81·6	80·7	80·2	78·7	78·0	76·8	70·7	66·8	Noon.
1 P. M.	70·4	75·0	77·4	79·2	81·9	80·6	80·2	78·7	78·1	77·3	71·6	67·5	1 P. M.
2 „	71·3	75·6	78·2	78·8	81·7	80·3	80·3	78·0	77·8	77·7	72·2	69·1	2 „
3 „	71·5	75·6	78·1	78·5	82·0	79·9	80·0	78·2	77·7	78·5	73·3	70·2	3 „
4 „	71·5	75·3	77·9	78·2	81·6	79·5	79·7	77·8	77·3	78·2	73·6	70·8	4 „
5 „	70·8	74·6	77·4	77·6	81·1	79·0	79·1	77·4	76·5	77·8	73·2	70·0	5 „
6 „	70·3	72·8	76·1	76·8	80·3	78·4	78·5	76·9	75·9	77·4	72·2	69·7	6 „
7 „	70·2	72·4	75·4	76·2	79·9	78·2	78·1	76·7	75·7	77·1	72·4	69·3	7 „
8 „	69·5	71·9	75·4	76·2	79·3	78·2	78·1	76·6	75·7	76·4	72·6	68·7	8 „
9 „	68·8	70·8	75·2	76·0	79·1	77·9	78·0	76·6	75·6	76·3	71·8	67·1	9 „
10 „	68·4	69·8	74·5	75·8	79·1	77·7	77·9	76·6	75·4	75·8	70·4	65·6	10 „
11 „	67·7	69·5	74·6	75·9	79·0	77·6	77·9	76·6	75·3	75·2	69·8	64·4	11 „

TABLE LXVI.—*Showing, for the Year* 1857, *the Hours of Bombay Civil Time, at which the Mean Temperature of Evaporation or Wet Bulb Thermometer, in each Month, was at its Maximum and Minimum.*

Months, 1857.	The Mean Hourly Temperature of Evaporation.		Mean Diurnal Range.	The Time at which the Mean Hourly Temperature of Evaporation was at its	
	Maximum.	Minimum.		Maximum.	Minimum.
				H.	H.
January	71°5	65°9	5°6	3 & 4 P. M.	5, 6 & 7 A. M.
February	75·6	66·6	9·0	2 & 3 „	6 „
March	78·2	72·1	6·1	2 „	6 „
April	79·2	73·8	5·4	1 „	5 „
May	82·0	78·4	3·6	3 „	4 „
June	80·7	77·6	3·1	Noon.	11 P. M. & Midnt. 4 & 5 A. M.
July	80·3	77·6	2·7	2 P. M.	5 „
August	78·7	76·3	2·4	Noon & 1 „	4 „
September	78·1	75·1	3·0	1 P. M.	4 „
October	78·5	73·4	5·1	3 „	5 & 6 „
November	73·6	68·0	5·6	4 „	6 „
December	70·8	63·7	7·1	4 „	6 „

The times of the maximum and minimum temperatures of evaporation are not constant. The minimum temperature generally occurs at sunrise, and the maximum in the afternoon. A little rise of temperature is generally observed about midnight.

TABLE LXVII.—*Showing, for the Year* 1857, *the Mean Temperature of Evaporation or Wet Bulb Thermometer, for each Hour of Bombay Civil Time; and also its Diurnal Changes from the Mean.*

Bombay Civil Time.	Mean Temperature of Evaporation in		Mean.
	Summer.	Winter.	
Midnight.	77°0	70°2	73°6
1 A. M.	77·0	69·9	73·5
2 „	76·9	69·8	73·3
3 „	76·8	69·5	73·1
4 „	76·6	69·0	72·8
5 „	76·6	68·6	72·6
6 „	76·7	68·3	72·5
7 „	77·3	68·9	73·1
8 „	78·0	69·9	73·9
9 „	78·5	70·6	74·6
10 „	79·0	71·3	75·1
11 „	79·3	71·8	75·6
Noon.	79·6	72·3	76·0
1 P. M.	79·8	73·2	76·5
2 „	79·5	74·0	76·7
3 „	79·4	74·5	77·0
4 „	79·0	74·6	76·8
5 „	78·4	74·0	76·2
6 „	77·8	73·1	75·4
7 „	77·4	72·8	75·1
8 „	77·3	72·4	74·9
9 „	77·2	71·6	74·4
10 „	77·1	70·8	73·9
11 „	77·0	70·2	73·6

FOR DAY AND NIGHT.

Mean of { 6, 7, 8, 9, 10, 11 P. M. / Midnt. 1, 2, 3, 4, 5 A. M. } or Night .... 73°8

Mean of { 6, 7, 8, 9, 10, 11 A. M. / Noon, 1, 2, 3, 4, 5 P. M. } or Day .... 75·3

Mean.... 74·5

TIMES OF MEAN MAXIMUM AND MINIMUM.

A maximum at about 1 P. M. in Summer.
A minimum at about 5 A. M. in Summer.
A maximum at about 4 P. M. in Winter.
A minimum at about 6 A. M. in Winter.

TABLE LXVIII.—*Mean Hourly Changes of the Temperature of Evaporation, as obtained from Mean Hourly Values.*

Bombay Civil Time.	MONTHS, 1857.											
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Midnight & 1 A. M.	−0°2	0°1	−0°3	−0°3	−0°2	0°1	0·1	0°2	−0°4	−0°6	−0°4	−0°2
1 & 2 A. M.	−0·4	0·1	−0·4	−0·2	−0·1	0·0	−0·1	−0·2	0·1	0·3	−0·1	−0·1
2 & 3 „	−0·3	−0·8	0·3	−0·3	−0·3	0·0	0·0	−0·1	0·0	−0·3	−0·6	−0·3
3 & 4 „	−0·7	−0·6	−0·7	−0·4	−0·1	−0·1	−0·1	−0·1	−0·2	−0·5	−0·4	0·3
4 & 5 „	−0·2	−0·7	−0·9	−0·7	0·1	0·0	−0·1	0·3	0·1	−0·3	−0·2	−0·1
5 & 6 „	0·0	−0·3	−0·8	0·3	0·2	0·1	0·1	0·2	0·2	0·0	−0·8	−0·3
6 & 7 „	0·0	0·5	0·9	1·0	0·7	0·6	0·3	0·0	0·7	1·2	0·6	0·4
7 & 8 „	1·4	1·6	0·9	1·2	0·7	0·8	0·2	0·6	0·6	0·5	0·7	1·0
8 & 9 „	0·7	0·7	0·5	0·5	0·3	0·5	0·9	0·4	0·8	0·6	0·9	0·8
9 & 10 „	0·7	1·0	0·9	0·4	0·5	0·7	0·3	0·4	0·2	0·5	0·6	0·5
10 & 11 „	0·3	1·3	0·9	0·8	0·5	0·0	0·5	0·2	0·2	0·1	0·5	0·1
11 & Noon.	0·4	1·6	0·6	0·4	0·2	0·4	0·3	0·3	0·1	0·5	0·6	0·5
Noon & 1 P. M.	1·0	1·7	0·6	0·8	0·3	−0·1	0·0	0·0	0·1	0·5	0·9	0·7
1 & 2 „	0·9	0·6	0·8	−0·4	−0·2	−0·3	0·1	−0·7	−0·3	0·4	0·6	1·6
2 & 3 „	0·2	0·0	−0·1	−0·3	0·3	−0·4	−0·3	0·2	−0·1	0·8	1·1	1·1
3 & 4 „	0.0	−0·3	−0·2	−0·3	−0·4	−0·4	−0·3	−0·4	−0·4	−0·3	0·3	0·6
4 & 5 „	−0·7	−0·7	−0·5	−0·6	−0·5	−0·5	−0·6	−0·4	−0·8	−0·4	−0·4	−0·8
5 & 6 „	−0·5	−1·8	−1·3	−0·8	−0·8	−0·6	−0·6	0·5	−0·6	−0·4	−1·0	−0·3
6 & 7 „	−0·1	−0·4	−0·7	−0·6	−0·4	−0·2	−0·4	0·2	−0·2	−0·3	0·2	−0·4
7 & 8 „	−0·7	−0·5	0·0	0·0	−0·6	0·0	0·0	0·1	0·0	−0·7	0·2	−0·6
8 & 9 „	−0·7	−1·1	−0·2	−0·2	−0.2	−0·3	−0·1	0·0	−0·1	−0·1	−0·8	−1·6
9 & 10 „	−0·4	−1·0	−0·7	−0·2	0·0	−0·2	−0·1	0·0	−0·2	−0·5	−1·4	−1·5
10 & 11 „	−0·7	−0·3	0·1	0.1	−0·1	−0·1	0·0	0·0	−0·1	−0·6	−0·6	−1·2
11 & Midnight.	−0·0	−0·7	0·3	−0·2	0·1	0·0	−0·1	−0·1	0·3	−0·4	−0·7	0·0

TABLE LXIX.—*Showing, for the Year* 1857, *the Mean Changes of the Temperature of Evaporation between consecutive Hours of Bombay Civil Time; and the corresponding Character of the Changes.*

Bombay Civil Time.	Mean Amount of Changes.		Character of Changes.	
	Summer.	Winter.	Summer.	Winter.
Midnight & 1 A. M.	− 0°1	− 0°3	Small fall in Apr. May, and Sept.; and small rise in June, July, and August.	Small fall, except in February.
1 & 2 A. M.	− 0·1	− 0·1	Small fall, except in June and Sept.	Small fall, except in Feb. and October.
2 & 3 „	− 0·1	− 0·3	Steady in June, July, and September.	Small fall, except in March.
3 & 4 „	− 0·2	− 0·4	Small fall.	Small fall, except in December.
4 & 5 „	− 0·1	− 0·4	Small rise, except in April and July.	Small fall.
5 & 6 „	0·2	− 0·4	Small rise.	Small fall, except in January and Oct.
6 & 7 „	0·5	0·6	Moderate rise, except in July and Aug.	Moderate rise, except in January.
7 & 8 „	0·7	1·0	Large rise.	Large rise.
8 & 9 „	0·6	0·7	„ „	„ „
9 & 10 „	0·4	0·7	Small rise.	„ „
10 & 11 „	0·4	0·5	Small rise, except in June.	Rise, except in December.
11 & Noon.	0·3	0·5	„ „ „	Small rise, except in November.
Noon & 1 P. M.	0·2	0·9	Variable.	Large rise.
1 & 2 „	− 0·3	0·8	Small fall, except in July.	„ „
2 & 3 „	− 0·1	0·5	Small fall, except in May and August.	Rise, except in February and March.
3 & 4 „	− 0·4	0·0	Small fall.	Variable.
4 & 5 „	− 0·6	− 0·6	Moderate fall.	Moderate fall.
5 & 6 „	− 0·5	− 0·9	Moderate fall, except in August.	Large fall.
6 & 7 „	− 0·3	− 0·3	Small fall, except in August.	Small fall, except in November.
7 & 8 „	− 0·1	− 0·4	Steady, except in May.	Moderate fall, except in March and Nov.
8 & 9 „	− 0·1	− 0·8	Small fall, except in August.	Large fall, except in March and October.
9 & 10 „	− 0·1	− 0·9	Small fall, except in May and August.	Large fall.
10 & 11 „	0·0	− 0·5	Variable.	Moderate fall, except in March.
11 & Midnight.	0·0	− 0·3	„ „	Variable.

TABLE LXX.—*Showing the Excess of the Hourly Mean over the Annual Mean Temperature of Evaporation during the Year* 1857.

Bombay Civil Time.	Excess.	Bombay Civil Time.	Excess.
Midnight.	− 0°9	Noon.	1°5
1 A. M.	− 1·0	1 P. M.	2·0
2 „	− 1·2	2 „	2·2
3 „	− 1·4	3 „	2·5
4 „	− 1·7	4 „	2·3
5 „	− 1·9	5 „	1·7
6 „	− 2·0	6 „	0·9
7 „	− 1·4	7 „	0·6
8 „	− 0·6	8 „	0·4
9 „	0·1	9 „	− 0·1
10 „	0·6	10 „	− 0·6
11 „	1·1	11 „	− 0·9

It appears from this Table, that the Observations of the Temperature of Evaporation taken at 9 A. M. and 9 P. M. will differ but very little from the mean of the day. If the Temperature of Evaporation is to be determined from some combination of observations, the hours indicated as best will be midnight and 6 P. M.; 6 A. M. and 1 P. M.; 9 A. M. and 9 P. M.; and 10 A. M. and 10 P. M.

TABLE LXXI.—*Showing the Approximation to the Mean Temperature of Evaporation for each Month, from various Combinations.*

Months, 1857.	Combination of Observations taken at				Monthly Mean Temperature of Evaporation.	Differences of the Combinations of Observations with the true mean for each Month.			
	Midnt. and 6 P. M.	6 A. M. and 1 P. M.	9 A. M. and 9 P. M.	10 A. M. and 10 P. M.		Midnt. and 6 P. M.	6 A. M. and 1 P. M.	9 A. M. and 9 P. M.	10 A. M. and 10 P. M.
January	69°0	68°2	68°4	68°6	68°6	0°4	− 0°4	− 0°2	0°0
February ..	70·8	70·8	70·1	70·1	70·8	0·0	0·0	− 0·7	− 0·7
March	75·5	74·8	74·8	74·9	75·3	0·2	0·5	− 0·5	− 0·4
April	76·3	76·6	76·1	76·5	76·4	− 0·1	0·2	− 0·3	0·1
May	79·7	80·3	79·8	80·0	80·0	− 0·3	0·3	− 0·2	0·0
June	78·0	79·1	78·7	79·0	78·7	− 0·7	0·4	0·0	0·3
July	78·1	78·9	78·5	78·6	78·1	0·0	0·8	0·4	0·5
August	76·7	77·7	77·2	77·4	77·2	− 0·5	0·5	0·0	0·2
September ..	75·8	76·8	76·5	76·6	76·3	− 0·5	0·5	0·2	0·3
October	76·1	75·4	76·0	76·0	75·8	0·3	− 0·4	0·2	0·2
November ..	71·3	69·8	71·0	70·6	70·8	0·5	− 1·0	0·2	− 0·2
December ..	67·0	65·6	66·5	66·0	66·5	0·5	− 0·9	0·0	− 0·5

It appears from this Table that the combination of,—

Midnight	and	6 P. M.	will differ from the true mean by	0°33
6 A. M.	„	1 „	„ „	0·50
9 „	„	9 „	„ „	0·24
10 „	„	10 „	„ „	0·28

The combination of 9 A. M. and 9 P. M. departs less from the true mean than all the other combinations given here.

TABLE LXXII.—*Excess of the Mean Hourly Temperature of Evaporation above the Monthly Mean Temperature.*

Bombay Civil Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	−0°9	−2°0	−0°4	−0°8	−0°9	−1°1	−0°3	−0°7	−0°8	−1°1	−0°3	−2°1	Midnight.
1 A. M.	−1·1	−1·9	−0·7	−1·1	−1·0	−1·0	−0·3	−0·5	−1·1	−1·6	−0·7	−2·3	1 A. M.
2 „	−1·5	−1·9	−1·1	−1·3	−1·1	−1·0	−0·3	−0·7	−1·0	−1·4	−0·8	−2·4	2 „
3 „	−1·9	−2·6	−0·8	−1·5	−1·5	−1·1	−0·3	−0·8	−1·1	−1·7	−1·4	−2·7	3 „
4 „	−2·5	−3·2	−1·5	−1·9	−1·6	−1·1	−0·4	−0·9	−1·2	−2·2	−1·8	−2·4	4 „
5 „	−2·7	−3·9	−2·4	−2·6	−1·5	−1·1	−0·5	−0·6	−1·1	−2·4	−2·0	−2·5	5 „
6 „	−2·7	−4·2	−3·2	−2·3	−1·3	−1·0	−0·4	−0·4	−0·8	−2·5	−2·8	−2·8	6 „
7 „	−2·7	−3·7	−2·3	−1·3	−0·6	−0·4	−0·1	−0·4	−0·2	−1·3	−2·2	−2·4	7 „
8 „	−1·3	−2·2	−1·4	−0·2	0·1	0·3	0·1	0·2	0·4	−0·8	−1·5	−1·4	8 „
9 „	−0·6	−1·4	−0·9	0·3	0·5	0·9	1·0	0·6	1·1	−0·1	−0·6	−0·6	9 „
10 „	0·1	−0·4	−0·1	0·8	1·0	1·6	1·2	1·0	1·4	0·4	0·0	−0·1	10 „
11 „	0·4	0·9	0·9	1·6	1·4	1·6	1·8	1·2	1·6	0·4	0·5	−0·2	11 „
Noon.	0·8	2·5	1·5	2·0	1·7	2·0	2·1	1·5	1·7	1·0	−0·1	0·3	Noon.
1 P. M.	1·8	4·2	2·1	2·7	1·9	1·9	2·0	1·5	1·7	1·5	0·8	1·0	1 P. M.
2 „	2·7	4·8	3·9	2·4	1·7	1·6	2·2	0·8	1·5	1·8	1·4	2·6	2 „
3 „	2·9	4·7	2·8	2·0	1·8	1·2	1·9	1·0	1·4	2·7	2·5	3·7	3 „
4 „	2·9	4·5	2·6	1·8	1·6	0·8	1·6	0·6	1·0	2·3	2·8	4·3	4 „
5 „	2·2	3·8	2·1	1·1	1·1	0·2	1·0	0·2	0·1	2·0	2·4	3·5	5 „
6 „	1·7	2·0	0·8	0·4	0·4	−0·3	0·4	−0·3	−0·4	1·6	1·4	2·2	6 „
7 „	1·6	1·6	0·1	−0·3	−0·1	−0·6	0·0	−0·5	−0·6	1·2	1·6	2·3	7 „
8 „	0·9	1·1	0·1	−0·2	−0·7	−0·5	0·0	−0·6	−0·6	0·6	1·8	2·2	8 „
9 „	0·2	0·0	−0·1	−0·4	−0·9	−0·8	−0·1	−0·6	−0·7	0·4	1·0	0·6	9 „
10 „	−0·2	−1·1	−1·0	−0·7	−0·9	−1·0	−0·2	−0·7	−0·9	−0·1	−0·4	−0·9	10 „
11 „	−0·8	−1·3	−0·7	−0·6	−0·9	−1·1	−0·2	−0·7	−1·0	−0·6	−1·0	−2·1	11 „

TABLE LXXIII.—*Mean Hourly Values of the Temperature of Evaporation, diminished by the Monthly Mean, and the Change of each Hour.*

Bombay Civil Time.	MONTHS, 1857.												Bombay Civil Time.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	0°0	−1°1	+0°5	+0°1	0°0	−0°2	+0°6	+0°2	+0°1	−0°2	+0°6	−1°2	Midnight.
1 A. M.	−0·1	−0·9	+0·3	−0·1	0·0	0·0	+0·7	+0·5	−0·1	−0·6	0·3	−1·3	1 A. M.
2 „	−0·3	−0·7	+0·1	−0·1	+0·1	+0·2	+0·9	+0·5	+0·2	−0·2	0·4	−1·2	2 „
3 „	−0·5	−1·2	+0·6	−0·1	−0·1	+0·3	+1·1	+0·6	+0·3	−0·3	0·0	−1·3	3 „
4 „	+0·2	−0·5	+0·2	−0·2	+0·1	+0·6	+1·3	+0·8	+0·5	−0·5	−0·1	−0·7	4 „
5 „	−0·8	−2·0	−0·5	−0·7	+0·4	+0·8	+1·4	+1·3	+0·8	−0·5	−0·1	−0·6	5 „
6 „	−0·7	−2·2	−1·2	−0·3	+0·7	+1·0	+1·6	+1·6	+1·2	−0·5	−0·8	−0·8	6 „
7 „	−1·3	−2·3	−0·9	+0·1	+0·8	+1·0	+1·3	+1·0	+1·2	+0·1	−0·8	−1·0	7 „
8 „	−0·7	−1·6	−0·8	+0·4	+0·7	+0·9	+0·7	+0·8	+0·2	−0·2	−0·9	−0·8	8 „
9 „	−0·7	−1·5	−1·0	+0·2	+0·4	+0·8	+0·9	+0·5	+1·0	−0·2	−0·7	−0·7	9 „
10 „	−0·5	−1·0	−0·7	+0·2	+0·4	+1·0	+0·6	+0·4	+0·8	−0·2	−0·6	−0·7	10 „
11 „	−0·7	−0·2	−0·2	+0·5	+0·3	+0·5	+0·7	+0·1	+0·5	−0·7	−0·6	−1·3	11 „
Noon.	−0·7	+1·0	0·0	+0·5	+0·2	+0·5	+0·6	0·0	+0·2	−0·5	−1·6	−1·2	Noon.
1 P. M.	−0·2	+2·2	+0·1	+0·7	−0·1	−0·1	0·0	−0·5	−0·3	−0·5	−1·2	−1·0	1 P. M.
2 „	+0·5	+2·6	+1·7	+0·2	−0·5	−0·6	0·0	−1·4	−0·7	−0·4	−0·8	+0·4	2 „
3 „	+0·4	+2·2	+0·3	−0·5	−0·7	−1·3	−0·6	−1·5	−1·1	+0·2	0·0	+1·2	3 „
4 „	+0·6	+2·2	+0·3	−0·5	−0·7	−1·5	−0·7	−1·7	−1·3	0·0	+0·5	+2·0	4 „
5 „	+0·5	+2·1	+0·4	−0·6	−0·6	−1·5	−0·7	−1·5	−1·6	+0·3	+0·7	+1·8	5 „
6 „	+0·8	+1·1	−0·1	−0·5	−0·5	−1·2	−0·5	−1·2	−1·3	+0·7	+0·5	+2·3	6 „
7 „	+1·0	+1·0	−0·5	−0·9	−0·7	−1·2	−0·6	−1·1	−1·2	+0·6	+1·0	+1·6	7 „
8 „	+0·5	+0·7	+0·3	−0·6	−1·1	−0·9	−0·4	−1·0	−1·0	+0·2	+1·4	+1·8	8 „
9 „	+0·3	+0·1	0·0	−0·5	−0·8	−0·7	0·0	−0·5	−0·6	+0·5	+1·1	+0·7	9 „
10 „	+0·4	−0·5	−0·4	−0·1	−0·3	−0·4	+0·4	−0·1	−0·3	+0·5	+0·2	−0·3	10 „
11 „	+0·1	−0·4	+0·2	+0·3	0·0	−0·2	+0·7	+0·2	−0·1	+0·3	−0·1	−1·2	11 „

TABLE LXXIV.—*Showing, for the Year* 1857, *the Hourly Sums of Numbers in the preceding Table of Diurnal Inequality, without regard to the Signs of Numbers.*

Bombay Civil Time.	Hourly Sums in Summer.	Hourly Sums in Winter.
Midnight.	1°2	3°6
1 A. M.	1·4	3·5
2 „	2·0	2·9
3 „	2·5	3·9
4 „	3·5	2·2
5 „	5·4	4·5
6 „	6·4	6·2
7 „	5·4	6·4
8 „	3·7	5·0
9 „	3·8	4·8
10 „	3·4	3·7
11 „	2·6	3·7
Noon.	2·0	3·0
1 P. M.	1·7	5·2
2 „	3·4	6·4
3 „	5·7	4·3
4 „	6·4	5·6
5 „	6·5	5·8
6 „	5·2	5·5
7 „	5·7	5·7
8 „	5·0	4·9
9 „	3·1	2·7
10 „	1·6	2·3
11 „	1·5	2·3

FOR DAY AND NIGHT.

	Summer.	Winter.
Mean of {6, 7, 8, 9, 10, 11 P. M. / Midnt. 1, 2, 3, 4, 5 A. M.} or Night....	3°2	3°6
Mean of {6, 7, 8, 9, 10, 11 A. M. / Noon, 1, 2, 3, 4, 5 P. M.} or Day	4·2	5·0
Mean..	3·7	4·3

TIMES OF THE GREATEST AND LEAST INEQUALITY OF TEMPERATURE.

Greatest in Summer at Sunrise and Sunset.
Least in Summer at Midnight and Noon.
Greatest in Winter after Sunrise and Afternoon.
Least in Winter after Midnight.

TABLE LXXV.—*Showing, for each Month, the Sums of the Diurnal Changes of Inequality, without regard to their Signs.*

Months, 1857.	Monthly Sums of Numbers in the Diurnal Inequality Table.	Mean.
January	12°5	0°52
February	31·3	1·30
March	11·3	0·47
April	8·9	0·37
May.....	10·2	0·42
June.....	17·4	0·72
July.....	17·0	0·71
August.....	19·0	0·79
September	16·6	0·69
October	8·9	0·37
November	14·0	0·58
December.....	27·1	1·13

FOR SEASONS.

Mean of {Jan. Feb. Mar. / Oct. Nov. Dec.} or Winter	0°73
Mean of {Apr. May, June, / July, Aug. Sept.} or Summer....	0·62
Mean of the year..	0·67
Greatest monthly mean, in February	1·30
Least monthly mean, in April and October..	0·37
Difference.....	0·93

It appears from this Table that the Temperature of Evaporation was more regular in April and October than in any other month; while in the months of February and December it had departed the most from the true mean.

TABLE LXXVI.—*The Greatest and Least Temperature of Evaporation, in the Simple Hourly Observations, during the Year* 1857.

THE GREATEST TEMPERATURE OF EVAPORATION.			
DATE AND TIME.	The extreme Highest.	Average from the calculated Results.	Above the Average.
21 January ..... 2 P. M.	76°3	72°0	4°3
12 February ..... 3 „	77·7	75.2	2·5
20 February ..... 2 „	79·5	76·0	3·5
24 February ..... 2 „	81·0	76·5	4·5
18 March ..... 2 „	82·2	78·3	3·9
28 April ..... 1 „	84·8	80·4	4·4
24 July ..... 2 „	82·6	79·6	3·0
21 September ..... 9 A. M.	80·0	77·1	2·9
10 October ..... 4 P. M.	82·4	78·1	4·3
7 November ..... 4 „	81·0	74·8	6·2
17 November ..... 4 „	76·0	73·2	2·8
14 December..... 3 „	77·4	70·3	7·1
21 December..... 4 „	76·2	70·9	5·3

THE LEAST TEMPERATURE OF EVAPORATION.			
DATE AND TIME.	The extreme Lowest.	Average from the calculated Results.	Below the Average.
7 January ..... 6 A. M.	57·8	65·3	– 7·5
28 January ..... 5 „	59·2	66·3	– 7·1
5 February ..... 6 „	60·6	66.4	– 5·8
23 February..... 6 „	62·6	65·8	– 3·2
7 March ..... 6 „	66·8	70·6	– 3·8
4 April ..... 11 P. M.	68·0	75·4	– 7·4
11 May..... 4 A. M.	76·0	77·9	– 1·9
27 May..... 8 P. M.	74·2	78·9	– 4·7
6 June..... 5 A. M.	73·7	77·9	– 4·2
27 October ..... Midnight.	65·6	73·1	– 6·5
4 November ..... 6 A. M.	67·2	70·0	– 2·8
23 November..... 7 „	62·4	67·4	– 5·0
28 December..... 1 „	59·0	65·5	– 6·5

TABLE LXXVII.—*Mean Temperature of Dew Point, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
1	65°6		71°6	71°3	80°1		77°3	75°7	75°8	75°1		65°9
2	67·6	63°7		69·9	82·0	77°3	77·1		75·8	75·1	73°5	64·5
3	70·7	69·2	74·5	72·0		76·6	76·6	77·1	75·2	75·5	71·9	63·4
4		67·8	72·6	72·1	81·4	75·8	76·4	76·8	75·9		69·3	66·2
5	69·5	60·8	73·2		81·9	74·1			75·5	76·9	72·2	62·2
6	63·3	61·9	71·7	71·8	81·1	73·0	77·8	76·6		77·3	75·1	
7	60·9	64·6	68·8	73·6	81·7		77·7	76·7	76·0	76·6	77·7	60·1
8	67·3			73·6	81·1	75·7	78·2	76·9	75·0	77·5		58·3
9	68·2	65·4	74·1	74·1	77·6	75·2	78·3		75·6	76·1	74·2	58·6
10	68·6	64·1	72·0			75·0	77·9	76·3	74·8	76·8	68·9	57·1
11		64·5		69·5	75·5	76·2	76·9	76·6	75·0		67·1	58·1
12	68·6	64·3	73·3		74·3	77·1		77·0	74·7	73·2	68·0	61·5
13	68·4	65·4	74·7	74·8	76·6	77·1	76·7	76·8		70·4	67·5	
14	64·8	69·2	74·0	75·8	76·3		76·4	76·6	75·1	71·8	66·7	71·1
15	64·6			76·0	76·0	78·1	76·8		75·3	75·6		68·5
16	66·8	69·3	74·8	73·6	75·3	77·6	77·3		75·6	75·6	66·1	61·0
17	65·1	69·1	72·7	71·5		78·5	77·7	76·6	75·8		65·9	63·3
18		69·3	70·4	72·1	74·9	77·3	77·7	76·6	75·5		62·6	61·4
19	66·8	70·7	67·5		74·7	76·8		76·5	75·6	76·6	63·2	63·0
20	67·1	73·2	72·4	66·8	77·0	78·7	77·5	76·3		76·6	62·9	
21	67·4	73·8	76·2	69·4	77·5		77·5	75·4	76·9	74·1	60·1	63·9
22	67·5			73·1	76·7	78·5	78·1	76·4	76·3	73·5		64·7
23	65·1	68·9	71·2	74·3	76·2	77·7	78·0		75·1	70·4	61·1	63·2
24	63·5	70·8	68·6	75·0		77·2	78·2	76·1	75·0	70·0	62·4	63·0
25		72·6	71·1	76·4	76·7	78·1	77·3	76·5	74·4		65·4	
26	66·3	68·4	72·8		76·5	78·2		76·6	74·7	67·9	65·8	62·6
27	60·1	67·0	73°3	78·6	77·7	78·5	76·2	76·3		68·9	66·8	
28	58·4	68·8	74·0	78·5	78·1		76·0	76·0	74·0	72·0	68·4	58·3
29	59·1			78·7	77·9	78·3	76·6	75·9	74·2	73·0	67·2	59·7
30	60·4		75·6	79·1	77·2	77·9	77·8	75·5	74·6	72·4		60·2
31	62·1		74·7		75·7		77·6			72·9		6·24
Mean.	65·3	67·6	72·6	73·7	77·7	77·0	77·3	76·4	75·3	74·0	67·6	62·4

TABLE LXXVIII.—*Mean Temperature of Dew Point in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	65°4	66°0	73°3	74°0	77°8	76°3	76°7	75°8	75°0	73°6	68°8	61°4	72°0
1 A. M.	65·4	66·5	73·2	73·7	77·5	76·4	76·9	76·1	74·5	73·0	68·3	61·2	71·9
2 „	65·0	66·8	72·8	73·6	77·4	76·5	76·9	75·9	74·7	73·4	68·4	60·8	71·8
3 „	64·8	65·9	73·4	73·3	77·1	76·5	76·9	75·9	74·7	73·1	67·7	61·0	71·7
4 „	63·9	65·1	72·6	73·0	77·1	76·4	76·9	75·8	74·5	72·6	67·2	60·9	71·3
5 „	63·7	64·3	71·5	72·2	77·3	76·5	76·7	76·1	74·7	72·3	67·0	61·4	71·1
6 „	63·8	64·1	70·6	72·7	77·5	76·5	76·8	76·3	75·0	72·4	66·0	61·0	71·0
7 „	63·8	64·7	71·5	73·0	77·6	76·9	76·9	76·3	75·6	73·5	66·5	61·5	71·5
8 „	64·9	65·5	71·4	73·4	77·8	77·5	76·8	76·9	76·0	73·5	66·4	61·6	71·8
9 „	64·7	65·3	71·0	73·3	77·7	77·7	77·8	77·0	76·6	73·7	66·6	61·5	71·9
10 „	64·7	65·7	71·4	73·4	78·0	78·3	77·8	77·3	76·7	73·9	66·6	61·8	72·1
11 „	64·3	66·7	72·0	74·1	78·2	78·1	78·2	77·3	76·5	73·4	66·6	59·8	72·1
Noon.	64·1	68·4	72·6	74·4	78·2	78·2	78·5	77·6	76·4	73·6	64·7	59·3	72·2
1 P. M.	65·3	70·9	73·0	75·4	78·5	77·9	78·3	77·6	76·4	74·0	65·6	59·7	72·7
2 „	66·4	71·7	74·1	74·9	78·2	77·7	78·3	76·6	76·0	74·3	66·3	62·1	73·0
3 „	66·7	71·5	74·0	74·4	78·8	77·3	78·0	76·9	75·9	75·4	68·1	64·0	73·4
4 „	66·9	71·2	73·9	74·3	78·4	77·2	78·1	76·7	75·6	75·1	69·1	65·5	73·5
5 „	66·8	70·8	73·8	74·2	78·3	76·8	77·5	76·5	74·9	75·3	69·7	65·9	73·4
6 „	67·2	69·3	73·2	74·1	78·1	76·5	77·1	76·0	74·6	75·6	69·0	66·4	73·1
7 „	67·6	69·7	72·6	73·7	78·0	76·5	76·8	75·9	74·6	75·5	69·7	66·2	73·1
8 „	66·9	69·4	73·0	74·0	77·4	76·6	76·9	75·8	74·7	74·9	70·2	65·6	72·9
9 „	66·3	68·1	73·0	73·9	77·4	76·4	76·9	75·9	74·6	75·0	69·5	63·9	72·6
10 „	66·0	66·9	72·3	73·7	77·4	76·3	76·8	75·9	74·5	74·6	68·1	62·4	72·1
11 „	65·3	66·8	72·8	74·0	77·5	76·3	76·9	75·9	74·5	74·0	67·6	61·0	71·9
Diurnal Range.	3·9	7·6	3·5	3·2	1·7	2·0	1·6	1·8	2·2	3·3	5·5	7·1	3·6

TABLE LXXIX.—*Excess of the Mean Hourly Temperature of Dew Point above the Mean Monthly Value.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	0°0	-1°6	0°7	0°3	0°0	-0°7	-0°6	-0°6	-0°3	-0°4	1°2	+1°0	-0°3
1 A.M.	0·0	-1·1	0·6	0·0	-0·3	-0·6	-0·4	0·3	-0·8	-1·0	0·7	-1·2	-0·3
2 „	-0·4	-0·8	0·2	-0·1	-0·4	-0·5	-0·4	0·5	-0·6	-0·6	0·8	-1·6	-0·3
3 „	-0·6	-1·7	0·8	-0·4	-0·7	-0·5	-0·4	0·5	-0·6	-0·9	0·1	-1·4	-0·5
4 „	-1·5	-2·5	0·0	-0·7	-0·7	-0·6	-0·4	0·6	-0·8	-1·4	-0·4	-1·5	-0·8
5 „	-1·7	-3·3	-1·1	-1·5	-0·5	-0·5	-0·6	0·3	-0·6	-1·7	-0·6	-1·0	-1·1
6 „	-1·6	-3·5	-2·0	-1·0	-0·3	-0·5	-0·5	0·1	-0·3	-1·6	-1·6	-1·4	-1·2
7 „	-1·6	-2·9	-1·1	-0·7	-0·2	-0·1	-0·4	-0·1	0·6	-0·5	-1·1	-0·9	-0·7
8 „	-0·5	-2·1	-1·2	-0·3	0·0	0·5	-0·5	0·5	0·7	-0·5	-1·2	-0·8	-0·4
9 „	-0·7	-2·3	-1·6	-0·4	-0·1	0·7	0·5	0·6	1·3	-0·3	-1·0	-0·9	-0·4
10 „	-0·7	-1·9	-1·2	-0·3	0·2	1·3	0·5	0·9	1·4	-0·1	-1·0	-0·6	-0·1
11 „	-1·1	-0·9	-0·6	0·4	0·4	1·1	0·9	0·9	1·2	-0·6	-1·0	-2·6	-0·2
Noon.	-1·3	0·8	0·0	0·7	0·4	1·2	1·2	1·2	1·1	-0·4	-2·9	-3·1	-0·1
1 P.M.	-0·1	3·3	0·4	1·7	0·7	0·9	1·0	1·2	1·1	0·0	-2·0	-2·7	+0·5
2 „	1·0	4·1	1·5	1·2	0·4	0·7	1·0	0·2	0·7	0·3	-1·3	-0·3	0·7
3 „	1·3	3·9	1·4	0·7	1·0	0·3	0·7	0·5	0·6	1·4	0·5	1·6	1·1
4 „	1·5	3·6	1·3	0·6	0·6	0·2	0·8	0·3	0·3	1·1	1·5	3·1	1·2
5 „	1·4	3·2	1·2	0·5	0·5	-0·2	0·2	0·1	-0·4	1·3	2·1	3·5	1·1
6 „	1·8	1·7	0·6	0·4	0·3	-0·5	-0·2	-0·4	-0·7	1·6	1·4	4·0	0·8
7 „	2·2	2·1	0·0	0·0	0·2	-0·5	-0·5	-0·5	-0·7	1·5	2·1	3·8	0·8
8 „	1·5	1·8	0·4	0·3	-0·4	-0·4	-0·4	-0·6	-0·6	0·9	2·6	3·2	0·7
9 „	0·9	0·5	0·4	0·2	-0·4	-0·6	-0·4	-0·5	-0·7	1·0	1·9	1·5	0·3
10 „	0·6	-0·7	-0·3	0·0	-0·4	-0·7	-0·5	-0·5	-0·8	0·6	0·5	0·0	-0·2
11 „	-0·1	-0·8	0·2	0·3	-0·3	-0·7	-0·4	-0·5	-0·8	0·0	0·0	-1·4	-0·4

TABLE LXXX.—*Mean Pressure of Supposed Dry Air, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1	29·261		29·052	29·036	28·673		28·741	28·754	28·903	29·025		29·326
2	·264	29·276		·069	·656	28·745	·705		·898	·033	29·013	·388
3	·265	·167	·010	·036		·789	·729	·782	·922	·024	·086	·385
4		·222	·053	·022	·662	·815	·720	·795	·897		·165	·327
5	·268	·349	·045		·693	·862			·902	28·983	·082	·438
6	·454	·340	·088	·074	·718	·908	·662	·734		·965	28·984	
7	·457	·321	·137	·038	·705		·665	·738	·874	·969	·916	·457
8	·296			·053	·681	·818	·683	·737	·920	·941		·472
9	·280	·251	28·993	·021	·777	·816	·730		·907	·994	29·100	·488
10	·263	·325	29·060			·816	·736	·743	·913	·986	·204	·514
11		·311		·117	·920	·833	·761	·678	·900		·234	·476
12	·285	·121	·037		·975	·775		·674	·933	29·029	·265	·393
13	·304	·240	·080	28·952	·920	·688	·769	·728		·069	·305	
14	·380	·171	·116	·952	·936		·763	·764	·940	·103	·324	·210
15	·332			·980	·923	·700	·741		·971	·004		·295
16	·282	·124	·023	·989	·934	·731	·725		·961	28·945	·345	·427
17	·310	·141	·062	29·012		·639	·714	·734	·907		·357	·395
18		·173	·104	·031	·932	·658	·723	·745	·888		·399	·421
19	·246	·145	·141		·934	·709		·773	·874	·967	·381	·366
20	·224	·082	·020	·147	·842	·651	·785	·765		·949	·395	
21	·227	·045	28·941	·052	·805		·774	·787	·870	29·032	·416	·375
22	·213			28·914	·835	·590	·715	·793	·932	·065		·362
23	·263	·101	29·027	·898	·855	·609	·698		29·014	·132	·368	·376
24	·301	·102	·070	·888		·643	·714	·880	·022	·111	·364	·382
25		·065	·025	·861	·814	·621	·762	·863	·064		·286	
26	·241	·134	·040		·789	·679		·858	·091	·157	·212	·452
27	·370	·123	·037	·798	·695	·721	·776	·871		·150	·219	
28	·371	·086	28·925	·796	·659		·760	·897	·057	·049	·242	·495
29	·367			·755	·735	·696	·721	·890	·053	·004	·316	·512
30	·326		·899	·704	·776	·726	·705	·915	·052	·041		·509
31	·315		·968		·819		·705			·045		·485
Mean.	29·302	29·191	29·040	28·968	28·802	28·730	28·729	28·787	28·949	29·030	29·241	29·416

TABLE LXXXI.—*Mean Pressure of supposed Dry Air in each Month of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight.	29·305	29·241	29·023	28·976	28·808	28·751	28·757	28·813	28·958	29·044	29·214	29·431	29·027
1 A. M.	·293	·217	·013	·968	·803	·733	·732	·786	·955	·044	·214	·418	·015
2 „	·288	·194	·010	·961	·794	·721	·718	·779	·940	·026	·203	·416	·004
3 „	·286	·204	28·989	·897	·799	·714	·710	·773	·935	·031	·216	·403	28·996
4 „	·306	·219	29·014	·972	·805	·718	·712	·777	·941	·049	·232	·397	29·012
5 „	·319	·242	·057	29·004	·802	·727	·723	·770	·947	·073	·244	·416	·027
6 „	·334	·266	·100	·010	·819	·744	·736	·781	·952	·085	·289	·443	·047
7 „	·358	·281	·100	·024	·838	·751	·749	·797	·954	·078	·303	·449	·057
8 „	·360	·288	·129	·033	·844	·744	·764	·796	·962	·095	·327	·483	·069
9 „	·379	·314	·151	·044	·858	·739	·746	·806	·954	·102	·335	·499	·077
10 „	·375	·311	·139	·036	·844	·727	·746	·799	·951	·091	·329	·502	·071
11 „	·373	·274	·109	·004	·831	·726	·749	·794	·947	·083	·308	·508	·059
Noon.	·378	·209	·068	28·971	·816	·713	·713	·773	·932	·052	·315	·484	·036
1 P. M.	·292	·113	·026	·914	·782	·709	·707	·757	·911	·010	·266	·446	28·986
2 „	·245	·064	28·971	·904	·767	·703	·692	·769	·905	28·980	·233	·380	·968
3 „	·228	·051	·953	·901	·729	·701	·689	·747	·894	·935	·186	·332	·945
4 „	·225	·056	·951	·892	·731	·696	·675	·746	·902	·942	·165	·302	·940
5 „	·233	·071	·956	·899	·738	·704	·696	·756	·932	·949	·158	·305	·950
6 „	·233	·116	·974	·921	·759	·721	·720	·781	·951	·953	·188	·310	·969
7 „	·252	·127	29·019	·945	·775	·737	·739	·796	·968	·978	·195	·326	·988
8 „	·289	·156	·031	·959	·813	·748	·750	·810	·982	29·017	·195	·366	29·010
9 „	·314	·203	·045	·979	·826	·761	·762	·824	·993	·025	·219	·411	·030
10 „	·318	·236	·064	·991	·831	·770	·772	·827	·999	·038	·252	·438	·045
11 „	·323	·233	·050	·978	·824	·766	·763	·826	·990	·043	·253	·352	·033
Diurnal Range.	0·154	0·263	0·200	0·152	0·129	0·074	0·097	0·081	0·105	0·167	0·177	0·206	0·150

TABLE LXXXII.—*Excess of the Mean Hourly Pressure of Supposed Dry Air above the Monthly Mean Value.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight.	0·003	0·050	-0·017	0·008	0·006	0·021	0·028	0·026	0·009	0·014	-0·027	0·015	0·011
1 A.M.	-·009	·026	-·027	·000	·001	·003	·003	-·001	·006	·014	-·027	·002	-·001
2 „	-·014	·003	-·030	-·007	-·008	-·009	-·021	-·008	-·009	-·004	-·038	·000	-·012
3 „	-·016	·013	-·051	-·071	-·003	-·016	-·019	-·014	-·014	·001	-·025	-·013	-·019
4 „	·004	·028	-·026	·004	·003	-·012	-·017	-·010	-·008	·019	-·009	-·019	-·003
5 „	·017	·051	·017	·036	·000	-·003	-·006	-·017	-·002	·043	·003	·000	·011
6 „	·032	·075	·060	·042	·017	·014	·007	-·006	·003	·055	·048	·027	·031
7 „	·056	·090	·060	·056	·036	·021	·020	·010	·005	·048	·062	·033	·041
8 „	·058	·097	·089	·065	·042	·014	·035	·009	·013	·065	·086	·067	·053
9 „	·077	·123	·111	·076	·056	·009	·017	·019	·005	·072	·094	·083	·062
10 „	·073	·120	·099	·068	·042	-·003	·017	·012	·002	·061	·088	·086	·055
11 „	·071	·083	·069	·036	·029	-·004	·020	·007	-·002	·053	·067	·092	·043
Noon.	·076	·018	·028	·003	·014	-·017	-·016	-·014	-·017	·022	·074	·068	·019
1 P.M.	-·010	-·078	-·014	-·054	-·020	-·021	-·022	-·030	-·038	-·020	·025	·030	-·021
2 „	-·057	-·127	-·069	-·064	-·035	-·027	-·037	-·018	-·044	-·050	-·008	-·036	-·048
3 „	-·074	-·140	-·087	-·067	-·073	-·029	-·040	-·040	-·055	-·095	-·055	-·084	-·070
4 „	-·077	-·135	-·089	-·076	-·071	-·034	-·054	-·041	-·047	-·088	-·076	-·114	-·075
5 „	-·069	-·120	-·084	-·069	-·064	-·026	-·033	-·031	-·017	-·081	-·083	-·111	-·066
6 „	-·069	-·075	-·066	-·047	-·043	-·008	-·009	-·006	·002	-·047	-·053	-·106	-·044
7 „	-·050	-·064	-·021	-·023	-·027	·007	·010	·009	·019	-·052	-·046	-·090	-·027
8 „	-·013	-·035	-·009	-·009	·011	·018	·021	·023	·033	-·013	-·046	-·050	-·006
9 „	·012	·012	·005	·011	·024	·031	·033	·037	·044	-·005	-·022	-·005	·015
10 „	·016	·045	·024	·023	·029	·040	·043	·040	·050	·008	·011	·022	·029
11 „	·021	·042	·010	·010	·022	·036	·034	·039	·041	·013	·012	-·064	·018

TABLE LXXXIII.—*Mean Pressure of Moisture, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1	0·630		0·770	0·759	1·003		0·918	0·873	0·875	0·854		0·636
2	·673	0·592		·726	·067	0·920	·914		·876	·856	0·815	·607
3	·745	·709	·839	·776		·899	·898	·913	·861	·866	·774	·590
4		·677	·789	·779	·046	·876	·904	·906	·878		·712	·642
5	·716	·538	·806		·063	·830			·867	·907	·780	·562
6	·585	·558	·768	·772	·037	·801	·933	·900		·919	·856	
7	·546	·610	·697	·818	·056		·930	·902	·881	·898	·931	·525
8	·666			·818	·036	·873	·946	·909	·854	·926		·494
9	·686	·627	·830	·829	0·928	·861	·948		·868	·884	·832	·499
10	·694	·600	·777			·853	·937	·890	·850	·904	·700	·475
11		·608		·716	·869	·887	·907	·898	·854		·660	·492
12	·695	·614	·808		·834	·912		·910	·847	·807	·681	·546
13	·690	·634	·844	·848	·900	·913	·902	·904		·737	·671	
14	·614	·709	·826	·875	·889		·893	·899	·858	·771	·653	·754
15	·609			·881	·882	·943	·906		·863	·871		·695
16	·656	·712	·845	·818	·863	·929	·919		·873	·871	·639	·542
17	·619	·706	·793	·764		·956	·931	·898	·876		·636	·585
18		·711	·737	·778	·852	·916	·930	·900	·863		·570	·549
19	·656	·743	·668		·845	·906		·896	·871	·898	·581	·579
20	·662	·806	·782	·656	·910	·962	·926	·890		·899	·575	
21	·669	·823	·886	·713	·924		·924	·866	·907	·829	·526	·586
22	·671			·803	·901	·955	·945	·892	·891	·815		·611
23	·619	·701	·754	·835	·887	·932	·941		·857	·737	·543	·582
24	·589	·746	·701	·855		·916	·947	·886	·853	·727	·567	·578
25		·790	·754	·894	·901	·939	·918	·895	·839		·625	
26	·644	·691	·795		·897	·945		·898	·847	·679	·635	·567
27	·526	·659	·809	·958	·932	·955	·888	·890		·700	·656	
28	·497	·700	·828	·956	·942		·880	·882	·827	·776	·691	·500
29	·508			·961	·938	·949	·899	·880	·833	·799	·663	·518
30	·530		·871	·974	·915	·938	·934	·869	·842	·785		·523
31	·561		·845		·874		·928			·798		·546
Mean.	0·628	0·674	0·793	0·822	0·933	0·910	0·920	0·894	0·862	0·827	0·675	0·566

TABLE LXXXIV.—*Mean Pressure of Moisture in the Atmospheric Air, in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight.	0·626	0·638	0·810	0·828	0·930	0·891	0·902	0·876	0·853	0·818	0·699	0·549	0·785
1 A. M.	·627	·648	·805	·820	·925	·893	·908	·885	·841	·801	·689	·545	·782
2 „	·618	·655	·796	·817	·923	·895	·908	·879	·845	·812	·690	·537	·781
3 „	·613	·636	·811	·810	·914	·896	·909	·878	·846	·803	·675	·542	·784
4 „	·596	·619	·789	·800	·912	·893	·907	·875	·841	·789	·663	·551	·769
5 „	·592	·603	·763	·780	·920	·897	·902	·886	·846	·782	·660	·548	·765
6 „	·594	·599	·741	·792	·925	·897	·905	·889	·854	·786	·639	·542	·763
7 „	·594	·612	·763	·801	·927	·908	·908	·891	·871	·813	·648	·551	·774
8 „	·615	·629	·760	·811	·935	·924	·906	·908	·883	·813	·646	·553	·782
9 „	·612	·623	·751	·809	·933	·937	·933	·910	·898	·819	·652	·551	·786
10 „	·613	·632	·762	·811	·939	·949	·935	·920	·902	·825	·651	·545	·791
11 „	·604	·654	·777	·830	·946	·943	·947	·920	·827	·812	·651	·520	·792
Noon.	·600	·691	·789	·838	·946	·946	·954	·928	·894	·816	·612	·511	·790
1 P. M.	·623	·749	·801	·866	·954	·938	·949	·927	·894	·828	·631	·518	·815
2 „	·647	·768	·829	·850	·947	·930	·950	·900	·882	·835	·645	·562	·812
3 „	·654	·764	·827	·838	·963	·920	·939	·908	·880	·866	·683	·598	·820
4 „	·658	·756	·824	·836	·951	·915	·944	·902	·872	·858	·706	·629	·821
5 „	·656	·747	·821	·833	·949	·906	·925	·896	·850	·863	·721	·637	·817
6 „	·665	·712	·805	·829	·942	·895	·913	·883	·842	·871	·705	·647	·810
7 „	·672	·720	·794	·820	·941	·895	·906	·879	·843	·868	·719	·643	·809
8 „	·657	·713	·801	·826	·922	·899	·909	·876	·845	·852	·733	·630	·805
9 „	·644	·684	·802	·824	·921	·894	·907	·878	·844	·855	·715	·595	·796
10 „	·639	·657	·783	·820	·923	·891	·905	·879	·841	·842	·684	·567	·786
11 „	·623	·656	·795	·828	·924	·890	·907	·879	·840	·828	·673	·542	·790
Diurnal Range.	0·080	0·169	0·088	0·086	0·051	0·059	0·052	0·053	0·062	0·089	0·121	0·136	0·085

TABLE LXXXV.—*Mean Excess of the Mean Hourly Pressure of Moisture above the Mean Monthly Value.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight.	-0·002	-0·036	0·017	0·006	-0·003	-0·019	-0·018	-0·018	-0·009	-0·009	0·024	-0·017	-0·007
1 A.M.	-·001	-·026	·012	-·002	-·008	-·017	-·012	-·009	-·021	-·026	·014	-·021	-·010
2 „	-·010	-·019	·003	-·005	-·010	-·015	-·012	-·015	-·017	-·015	·015	-·029	-·011
3 „	-·015	-·038	·018	-·012	-·019	-·014	-·011	-·016	-·016	-·024	·000	-·024	-·014
4 „	-·032	-·055	-·004	-·022	-·021	-·017	-·013	-·019	-·021	-·038	-·012	-·015	-·022
5 „	-·036	-·071	-·030	-·042	-·013	-·013	-·018	-·008	-·016	-·045	-·015	-·018	-·027
6 „	-·034	-·075	-·052	-·030	-·008	-·013	-·015	-·005	·008	-·041	-·036	-·024	-·028
7 „	-·034	-·064	-·030	-·021	-·006	-·002	-·012	-·003	·009	-·014	-·027	-·015	-·018
8 „	-·013	-·045	-·033	-·011	·002	·014	-·014	·014	·021	-·014	-·029	-·013	-·010
9 „	-·016	-·051	-·042	-·013	·000	·027	·013	·016	·036	-·008	-·023	-·015	-·006
10 „	-·015	-·042	-·031	-·011	·006	·039	·015	·026	·040	-·002	-·024	-·021	-·002
11 „	-·024	-·020	-·016	·008	·013	·033	·027	·026	·035	-·015	-·024	-·046	·000
Noon.	-·028	·017	-·004	·016	·013	·036	·034	·034	·032	-·011	-·063	-·055	·001
1 P.M.	-·005	·075	·008	·044	·021	·028	·029	·033	·032	·001	-·044	-·048	·014
2 „	·019	·094	·036	·028	·014	·020	·030	·006	·020	·008	-·030	-·004	·020
3 „	·026	·090	·034	·016	·030	·010	·019	·014	·018	·039	·008	·032	·028
4 „	·030	·082	·031	·014	·018	·005	·024	·008	·010	·031	·031	·063	·029
5 „	·028	·073	·028	·011	·016	-·004	·005	·002	-·012	·036	·046	·071	·025
6 „	·037	·038	·012	·007	·009	-·015	-·007	-·011	-·020	·044	·030	·081	·017
7 „	·044	·046	·001	-·002	·008	-·015	-·014	-·015	-·019	·041	·044	·077	·016
8 „	·029	·039	·008	·004	-·011	-·011	-·011	-·018	-·017	·025	·058	·064	·013
9 „	·016	·010	·009	·002	-·012	-·016	-·013	-·016	-·018	·028	·040	·029	·005
10 „	·011	-·017	-·010	-·002	-·010	-·019	-·015	-·015	-·021	·015	·009	·001	-·006
11 „	-·005	-·018	·002	·006	-·009	-·020	-·013	-·015	-·022	·001	-·002	-·024	-·010

TABLE LXXXVI.—*Mean Humidity of Atmospheric Air, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
1	0·79		0·77	0·64	0·83		0·85	0·97	0·92	0·85		0·75
2	·79	0·69		·61	·89	0·83	·84		·91	·84	0·85	·74
3	·82	·79	·82	·69		·81	·83	·93	·89	·84	·81	·72
4		·77	·80	·69	·86	·74	·82	·92	·89		·75	·77
5	·84	·65	·81		·87	·70			·89	·90	·79	·63
6	·72	·69	·77	·71	·87	·67	·80	·96		·88	·86	
7	·68	·73	·69	·77	·90		·86	·92	·90	·88	·91	·64
8	·80			·78	·87	·73	·86	·93	·90	·88		·62
9	·81	·73	·84	·79	·77	·72	·84		·91	·84	·81	·61
10	·79	·68	·82			·71	·82	·94	·93	·87	·71	·59
11		·65		·67	·73	·80	·78	·94	·88		·71	·63
12	·79	·64	·81		·72	·81		·92	·87	·79	·74	·65
13	·81	·66	·84	·77	·75	·80	·78	·89		·73	·72	
14	·75	·79	·85	·79	·74		·81	·89	·88	·79	·70	·82
15	·75			·79	·74	·81	·82		·87	·87		·77
16	·75	·78	·82	·74	·73	·81	·83		·86	·84	·71	·66
17	·72	·75	·73	·68		·85	·84	·94	·94		·67	·73
18		·76	·62	·72	·71	·91	·83	·94	·93		·61	·71
19	·75	·75	·56		·70	·86		·94	·96	·88	·66	·73
20	·72	·83	·69	·65	·75	·85	·85	·94		·87	·66	
21	·67	·89	·82	·69	·75		·85	·93	·96	·79	·61	·70
22	·72			·73	·74	·84	·91	·91	·92	·77		·74
23	·70	·71	·67	·77	·72	·92	·87		·86	·72	·65	·71
24	·69	·75	·60	·79		·92	·85	·89	·86	·72	·67	·72
25		·78	·68	·82	·76	·91	·92	·89	·88		·75	
26	·76	·67	·73		·75	·87		·88	·86	·67	·78	·70
27	·68	·65	·76	·84	·84	·88	·92	·88		·69	·80	
28	·67	·70	·75	·82	·75		·97	·88	·81	·79	·84	·61
29	·65			·83	·75	·86	·96	·87	·82	·81	·80	·64
30	·67		·80	·82	·72	·85	1·00	·85	·85	·80		·65
31	·69		·75		·71		0·94			·83		·67
Mean.	0·74	0·73	0·75	0·74	0·77	0·82	0·86	0·91	0·89	0·81	0·74	0·69

TABLE LXXXVII.—*Mean Humidity of Atmospheric Air, in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	0·81	0·76	0·84	0·83	0·85	0·87	0·89	0·92	0·93	0·88	0·85	0·77	0·85
1 A. M.	·83	·79	·86	·83	·85	·86	·90	·94	·92	·88	·85	·77	·86
2 „	·82	·81	·86	·84	·85	·87	·90	·94	·94	·89	·85	·78	·86
3 „	·83	·80	·89	·85	·85	·87	·91	·94	·94	·89	·85	·78	·87
4 „	·82	·79	·87	·85	·86	·87	·91	·94	·94	·88	·84	·80	·86
5 „	·82	·78	·86	·84	·87	·88	·90	·95	·94	·89	·84	·79	·86
6 „	·83	·79	·85	·85	·87	·88	·90	·95	·95	·90	·83	·79	·87
7 „	·83	·80	·86	·78	·81	·85	·89	·94	·94	·89	·82	·80	·85
8 „	·80	·75	·76	·73	·76	·82	·86	·93	·92	·84	·75	·73	·80
9 „	·73	·68	·69	·68	·73	·81	·86	·91	·90	·80	·71	·67	·76
10 „	·69	·63	·66	·66	·70	·78	·83	·91	·88	·78	·67	·63	·73
11 „	·64	·61	·64	·65	·68	·77	·82	·89	·85	·73	·63	·56	·70
Noon.	·61	·61	·62	·64	·67	·74	·81	·88	·84	·70	·57	·51	·68
1 P. M.	·61	·65	·61	·65	·66	·73	·80	·87	·83	·69	·56	·49	·68
2 „	·60	·66	·63	·64	·66	·73	·79	·86	·82	·69	·56	·52	·68
3 „	·63	·65	·63	·63	·67	·74	·79	·86	·82	·70	·59	·56	·69
4 „	·64	·65	·64	·65	·68	·76	·81	·89	·82	·71	·63	·60	·71
5 „	·68	·67	·67	·69	·72	·78	·83	·90	·83	·76	·70	·68	·74
6 „	·74	·73	·72	·74	·77	·80	·85	·91	·86	·82	·73	·73	·78
7 „	·77	·76	·75	·76	·80	·82	·87	·91	·88	·84	·76	·74	·80
8 „	·77	·77	·77	·78	·80	·83	·88	·91	·89	·85	·78	·75	·82
9 „	·78	·77	·79	·79	·82	·85	·88	·92	·90	·87	·79	·74	·82
10 „	·80	·76	·79	·79	·82	·85	·89	·93	·91	·87	·80	·74	·83
11 „	·80	·77	·82	·82	·83	·86	·89	·92	·91	·88	·81	·75	·84
Diurnal Range.	0·23	0·20	0·28	0·22	0·21	0·15	0·12	0·09	0·13	0·21	0·29	0·31	0·20

TABLE LXXXVIII.—*Excess of the Mean Hourly Humidity of Air above the Monthly Mean Value.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	0·07	0·03	0·09	0·09	0·08	0·05	0·03	0·01	0·04	0·07	0·11	0·08	0·06
1 A. M.	·09	·06	·11	·09	·08	·04	·04	·03	·03	·07	·11	·08	·07
2 „	·08	·08	·11	·10	·08	·05	·04	·03	·05	·08	·11	·09	·07
3 „	·09	·07	·14	·11	·08	·05	·05	·03	·05	·08	·11	·09	·08
4 „	·08	·06	·12	·11	·09	·05	·05	·03	·05	·07	·10	·11	·08
5 „	·08	·05	·11	·10	·10	·06	·04	·04	·05	·08	·10	·10	·07
6 „	·09	·06	·10	·11	·10	·06	·04	·04	·06	·09	·09	·10	·08
7 „	·09	·07	·11	·04	·04	·03	·03	·03	·05	·08	·08	·11	·06
8 „	·06	·02	− ·02	− ·01	− ·01	·00	·00	·02	·03	·03	·01	·04	·01
9 „	− ·01	− ·05	− ·06	− ·06	− ·04	− ·01	·00	·00	·01	− ·01	− ·03	− ·02	− ·02
10 „	− ·05	− ·10	− ·09	− ·08	− ·07	− ·04	− ·03	·00	− ·01	− ·03	− ·07	− ·06	− ·05
11 „	− ·10	− ·12	− ·11	− ·09	− ·09	− ·05	− ·04	− ·02	− ·04	− ·08	− ·11	− ·13	− ·08
Noon.	− ·13	− ·12	− ·13	− ·10	− ·10	− ·08	− ·05	− ·03	− ·05	− ·11	− ·17	− ·18	− ·10
1 P. M.	− ·13	− ·08	− ·14	− ·09	− ·11	− ·09	− ·06	− ·04	− ·06	− ·12	− ·18	− ·20	− ·11
2 „	− ·14	− ·07	− ·12	− ·10	− ·11	− ·09	− ·07	− ·05	− ·07	− ·12	− ·18	− ·17	− ·10
3 „	− ·11	− ·08	− ·12	− ·11	− ·10	− ·08	− ·07	− ·05	− ·07	− ·11	− ·15	− ·13	− ·10
4 „	− ·10	− ·08	− ·11	− ·09	− ·09	− ·06	− ·05	− ·02	− ·07	− ·10	− ·11	− ·09	− ·08
5 „	− ·06	− ·06	− ·08	− ·05	− ·05	− ·04	− ·03	− ·01	− ·06	− ·05	− ·04	− ·01	− ·04
6 „	·00	·00	− ·03	·00	·00	− ·02	− ·01	·00	− ·03	·01	− ·01	·04	·00
7 „	·03	·03	·00	·02	·03	·00	·01	·00	− ·01	·03	·02	·05	·02
8 „	·03	·04	·02	·04	·03	·01	·02	·00	·00	·04	·04	·06	·03
9 „	·04	·04	·04	·05	·05	·03	·02	·01	·01	·06	·05	·05	·04
10 „	·06	·03	·04	·05	·05	·03	·03	·02	·02	·06	·06	·05	·04
11 „	·06	·04	·07	·08	·06	·04	·03	·01	·02	·07	·07	·06	·05

TABLE LXXXIX.—*Mean Weight in Grains of a Cubic Foot of Common Air, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.
1	511		500	494	490		494	501	499	501		510
2	510	508		493	491	494	493		501	500	502	512
3	508	506	500	496		495	493	498	502	501	503	512
4		508	501	496	491	492	493	500	499		505	511
5	510	510	501		492	492			501	502	501	509
6	513	510	501	498	492	491	493	501		501	501	
7	512	511	501	499	493		494	499	501	500	500	512
8	511			499	491	492	493	499	503	499		512
9	510	508	500	499	491	491	493		503	499	502	512
10	509	508	503			490	493	501	504	501	502	513
11		507		499	493	495	491	497	501		506	513
12	510	504	501		493	494		496	502	500	507	510
13	511	503	502	497	493	492	493	497		500	507	
14	512	507	505	497	493		494	497	502	504	507	508
15	511			498	493	491	494		501	502		509
16	509	506	500	497	493	493	494		499	499	509	511
17	509	505	498	495		492	494	499	504		506	513
18		506	495	498	493	495	494	499	503		507	513
19	508	502	494		492	494		501	504	500	509	512
20	507	504	496	500	492	492	495	501		500	509	
21	502	505	497	498	490		495	501	503	499	509	511
22	504			495	491	491	496	500	502	500		511
23	508	502	496	497	491	495	495		501	500	509	511
24	509	501	495	497		495	494	499	501	500	510	512
25		501	496	496	492	494	498	499	506		509	
26	509	499	498		491	494		498	503	500	509	513
27	512	500	499	495	490	494	499	499		501	509	
28	513	500	496	493	490		502	499	501	502	511	512
29	511			492	488	494	500	499	501	501	510	513
30	510		496	490	490	494	501	499	502	502		513
31	510		496		490		497			504		512
Mean.	510	505	499	497	492	493	495	499	502	501	506	512

TABLE XC.—*Mean Weight in Grains of a Cubic Foot of Common Air, in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.
Midnight.	513	509	503	500	496	496	496	502	502	506	510	518	504
1 A. M.	514	509	504	502	495	495	497	501	504	506	510	517	504
2 „	514	510	504	501	495	495	496	501	505	505	511	517	504
3 „	514	510	505	500	496	495	496	501	505	505	511	517	504
4 „	515	511	505	503	496	495	496	501	505	506	511	518	505
5 „	515	511	506	504	496	496	496	501	505	507	512	517	505
6 „	515	513	508	504	497	496	497	501	505	508	512	519	506
7 „	516	512	506	499	495	495	496	502	505	507	512	518	505
8 „	513	509	502	498	492	493	495	500	503	504	510	516	503
9 „	512	508	500	495	491	493	494	498	501	501	509	512	501
10 „	510	507	498	493	490	490	494	497	500	500	506	510	500
11 „	507	500	495	492	488	489	493	497	500	499	502	508	498
Noon.	503	498	492	490	487	488	491	496	498	496	499	504	495
1 P. M.	501	495	491	490	486	488	491	496	498	493	498	502	495
2 „	501	495	490	489	485	488	490	495	497	493	495	501	493
3 „	501	494	490	489	486	488	489	495	497	492	495	501	493
4 „	501	494	490	489	486	489	490	496	497	493	497	502	494
5 „	504	497	491	492	488	490	493	497	499	496	500	507	496
6 „	507	500	497	495	490	492	495	499	502	498	504	509	499
7 „	508	505	498	497	492	494	496	499	502	500	506	510	500
8 „	510	506	500	498	493	495	496	500	504	501	506	511	502
9 „	511	508	501	499	495	495	496	502	505	503	508	513	503
10 „	512	508	501	499	495	496	496	502	505	504	510	516	504
11 „	513	509	501	500	496	496	497	502	506	505	510	517	504
Diurnal Range.	15	19	18	15	12	8	8	7	9	16	17	18	13

TABLE XCI.—*Excess of the Mean Hourly Weight of a Cubic Foot of Common Air above the Monthly Mean Value.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.
Midnight.	3	4	4	3	4	3	1	3	0	5	4	6	3
1 A. M.	4	4	5	5	3	2	2	2	2	5	4	5	4
2 „	4	5	5	4	3	2	1	2	3	4	5	5	4
3 „	4	5	6	3	4	2	1	2	3	4	5	5	4
4 „	5	6	6	6	4	2	1	2	3	5	5	6	4
5 „	5	6	7	7	4	3	1	2	3	6	6	5	5
6 „	5	8	9	7	5	3	2	2	3	7	6	7	5
7 „	6	7	7	2	3	2	1	3	3	6	6	6	4
8 „	3	4	3	1	0	0	0	1	1	3	4	4	2
9 „	2	3	1	- 2	- 1	0	- 1	- 1	- 1	0	3	0	0
10 „	0	2	- 1	- 4	- 2	- 3	- 1	- 2	- 2	- 1	0	- 2	- 1
11 „	- 3	- 5	- 4	- 5	- 4	- 4	- 2	- 2	- 2	- 2	- 4	- 4	- 3
Noon.	- 7	- 7	- 7	- 7	- 5	- 5	- 4	- 3	- 4	- 5	- 7	- 8	- 6
1 P. M.	- 9	- 10	- 8	- 7	- 6	- 5	- 4	- 3	- 4	- 8	- 8	- 10	- 7
2 „	- 9	- 10	- 9	- 8	- 7	- 5	- 5	- 4	- 5	- 8	- 11	- 11	- 8
3 „	- 9	- 11	- 9	- 8	- 6	- 5	- 6	- 4	- 5	- 9	- 11	- 11	- 8
4 „	- 9	- 11	- 9	- 8	- 6	- 4	- 5	- 3	- 5	- 8	- 9	- 10	- 7
5 „	- 6	- 8	- 8	- 5	- 4	- 3	- 2	- 2	- 3	- 5	- 6	- 5	- 5
6 „	- 3	- 5	- 2	- 2	- 2	- 1	0	0	0	- 3	- 2	- 3	- 2
7 „	- 2	0	- 1	0	0	1	1	0	0	- 1	0	- 2	0
8 „	0	1	1	1	1	2	1	1	2	0	0	- 1	1
9 „	1	3	2	2	3	2	1	3	3	2	2	1	2
10 „	2	3	2	2	3	3	1	3	3	3	4	4	3
11 „	3	4	2	3	4	3	2	3	4	4	4	5	3

TABLE XCII.—*Mean Weight in Grains of Vapour in a Cubic Foot of Common Air, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.
1	6·9		8·4	8·1	10·7		9·8	9·6	9·5	9·2		7·0
2	7·3	6·6		7·8	11·4	9·9	9·8		9·6	9·2	8·9	6·8
3	8·0	7·7	9·2	8·3		9·8	9·8	9·9	9·2	9·3	8·4	6·5
4		7·4	8·7	8·3	11·1	9·4	9·6	9·9	9·5		7·7	7·0
5	7·8	5·9	8·7		11·4	8·8			9·5	9·8	8·4	6·1
6	6·5	6·2	8·4	8·3	11·0	8·6	10·1	9·9		9·9	9·2	
7	6·0	6·8	7·6	8·9	11·4		10·1	9·9	9·5	9·7	10·1	5·8
8	7·3			8·9	11·0	9·4	10·1	9·9	9·2	9·9		5·3
9	7·4	6·9	8·9	8·9	10·0	9·1	10·2		9·6	9·5	8·9	5·5
10	7·6	6·6	8·4			9·1	10·1	9·7	9·3	9·7	7·7	5·1
11		6·7		7·8	9·4	9·5	9·8	9·9	9·2		7·1	5·4
12	7·6	6·6	8·8		8·9	9·8		9·9	9·2	8·7	7·4	5·2
13	7·5	6·8	9·2	9·2	9·7	9·8	9·8	9·8		8·0	7·4	
14	6·8	7·7	8·9	9·5	9·5		9·6	9·8	9·2	8·3	7·1	7·9
15	6·7			9·5	9·4	10·1	9·8		9·2	9·4		7·7
16	7·2	7·8	9·2	8·8	9·2	10·1	9·9		9·5	9·4	6·9	6·0
17	6·8	7·7	8·6	8·3		10·4	10·1	10·5	9·6		6·9	6·4
18		7·8	7·9	8·3	9·1	10·0	10·1	10·5	9·6		6·3	6·0
19	7·2	8·1	7·3		9·1	9·8		10·2	9·6	9·6	6·3	6·4
20	7·2	8·7	8·4	7·1	9·7	10·4	10·1	10·2		9·6	6·3	
21	7·2	8·9	9·5	7·7	10·0		10·1	10·2	9·9	8·9	5·7	6·6
22	7·3			8·7	9·7	10·4	10·1	10·5	9·6	8·8		6·8
23	6·8	7·7	8·0	9·0	9·4	10·2	10·1		9·2	7·9	5·9	6·4
24	6·5	8·1	7·6	9·2		9·9	10·1	10·8	9·2	7·8	6·1	6·4
25		8·7	8·0	9·6	9·8	10·1	10·0	10·8	8·9		6·4	
26	7·1	7·4	8·6		9·7	10·1		11·1	9·2	7·3	7·0	6·4
27	5·8	7·1	8·8	10·4	10·1	10·4	9·6	10·8		7·6	7·2	
28	5·5	7·6	8·9	10·4	10·1		9·6	10·8	8·9	8·4	7·4	5·6
29	5·6			10·4	10·0	10·2	9·9	10·8	8·9	8·6	7·2	5·8
30	5·9		9·5	10·4	9·7	10·1	10·2	11·1	9·2	8·6		5·8
31	6·2		9·2		9·4		10·2			8·7		6·1
Mean.	6·9	7·4	8·6	8·8	10·0	9·8	9·9	9·7	9·3	·89	7·4	6·3

TABLE XCIII.—*Mean Weight, in Grains, of Vapour in a Cubic Foot of Common Air, in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.
Midnight.	6·9	7·0	8·8	8·9	10·1	9·6	9·9	9·6	9·3	8·8	7·7	6·1	8·6
1 A.M.	6·9	7·2	8·7	8·9	10·1	9·6	9·8	9·6	9·2	8·7	7·5	6·0	8·5
2 „	6·8	7·2	8·7	8·9	9·9	9·8	9·8	9·6	9·2	8·7	7·5	6·0	8·5
3 „	6·8	7·0	8·9	8·8	9·8	9·8	9·8	9·6	9·2	8·7	7·4	6·0	8·5
4 „	6·6	6·8	8·7	8·7	9·8	9·6	9·8	9·6	9·2	8·7	7·2	6·0	8·4
5 „	6·5	6·7	8·4	8·4	9·9	9·8	9·8	9·6	9·2	8·5	7·2	6·1	8·3
6 „	6·6	6·6	8·1	8·7	10·1	9·8	9·8	9·7	9·3	8·6	7·0	6·0	8·4
7 „	6·6	6·8	8·4	8·7	10·1	9·8	9·8	9·7	9·5	8·8	7·2	6·2	8·5
8 „	6·8	7·0	8·2	8·7	10·0	10·1	9·8	9·9	9·6	8·8	7·1	6·2	8·5
9 „	6·7	6·8	8·0	8·7	10·0	10·1	10·1	9·9	9·7	8·8	7·2	6·2	8·5
10 „	6·7	6·9	8·1	8·7	10·0	10·2	10·1	9·9	9·7	8·9	7·1	6·2	8·5
11 „	6·5	7·1	8·3	8·8	10·0	10·0	10·1	9·9	9·6	8·7	7·1	5·7	8·5
Noon.	6·5	7·4	8·6	8·9	10·0	10·0	10·4	10·1	9·6	8·7	6·7	5·6	8·5
1 P.M.	6·8	8·0	8·6	9·2	1·02	10·0	10·1	10·1	9·6	8·8	6·8	5·7	8·6
2 „	7·0	8·3	8·8	9·1	9·9	10·0	10·1	9·8	9·5	8·9	6·9	6·1	8·7
3 „	7·0	8·3	8·8	8·9	10·3	9·8	10·1	9·8	9·5	9·2	7·3	6·5	8·8
4 „	7·1	8·0	8·8	8·9	10·1	9·8	10·1	9·8	9·4	9·1	7·6	6·9	8·8
5 „	7·1	8·0	8·8	8·8	10·1	9·8	10·4	9·8	9·2	9·2	7·8	6·9	8·8
6 „	7·2	7·8	8·6	8·8	10·0	9·8	9·8	9·5	9·1	9·4	7·7	7·0	8·7
7 „	7·3	7·9	8·7	8·9	10·1	9·8	9·8	9·6	9·1	9·4	7·9	7·0	8·8
8 „	7·2	7·8	8·7	8·9	9·9	9·8	9·8	9·6	9·1	9·2	7·9	7·0	8·7
9 „	7·1	7·4	8·7	8·9	9·9	9·6	9·8	9·6	9·1	9·1	7·9	6·6	8·6
10 „	7·0	7·2	8·5	8·9	9·9	9·6	9·8	9·6	9·1	9·0	7·4	6·2	8·5
11 „	6·9	7·2	8·7	8·9	10·1	9·6	9·8	9·6	9·2	8·9	7·4	6·0	8·5
Diurnal Range.	0·8	1·7	0·9	0·8	0·5	0·6	0·6	0·6	0·6	0·9	1·2	1·4	0·9

TABLE XCIV.—*Excess of the Mean Hourly Weight of Vapour, in a Cubic Foot of Common Air, above the Monthly Mean Value.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.
Midnight.	0·0	−0·4	0·2	0·1	0·1	−0·2	0·0	−0·1	0·0	−0·1	0·3	−0·2	0·0
1 A. M.	·0	− ·2	·1	·1	0·1	− ·2	− ·1	− ·1	− ·1	− ·2	·1	− ·3	− 0·1
2 „	− ·1	− ·2	·1	·1	− ·1	·0	− ·1	− ·1	− ·1	− ·2	·1	− ·3	− 0·1
3 „	− ·1	− ·4	·3	·0	− ·2	·0	− ·1	− ·1	− ·1	− ·2	·0	− ·3	− 0·1
4 „	− ·3	− ·6	·1	− ·1	− ·2	− ·2	− ·1	− ·1	− ·1	− ·2	− ·2	− ·3	− 0·2
5 „	− ·4	− ·7	− ·2	− ·4	− ·1	·0	− ·1	− ·1	− ·1	− ·4	− ·2	− ·2	− 0·2
6 „	− ·3	− ·8	− ·5	− ·1	·1	·0	− ·1	·0	·0	− ·3	− ·4	− ·3	− 0·2
7 „	− ·3	− ·6	− ·2	− ·1	·1	·0	− ·1	·0	·2	− ·1	− ·2	− ·1	− 0·1
8 „	− ·1	− ·4	− ·4	− ·1	·0	·3	− ·1	·2	·3	− ·1	− ·3	− ·1	− 0·1
9 „	− ·2	− ·6	− ·6	− ·1	·0	·3	·2	·2	·4	− ·1	− ·2	− ·1	− 0·1
10 „	− ·2	− ·5	− ·5	− ·1	·0	·4	·2	·2	·4	·0	− ·3	− ·1	0·0
11 „	− ·4	− ·3	− ·3	·0	·0	·2	·2	·2	·3	− ·2	− ·3	− ·6	− 0·1
Noon.	− ·4	·0	·0	·1	·0	·2	·5	·4	·3	− ·2	− ·7	− ·7	0·0
1 P. M.	− ·1	·6	·0	·4	·2	·2	·2	·4	·3	− ·3	− ·6	− ·6	0·1
2 „	·1	·9	·2	·3	− ·1	·2	·2	·1	·2	·0	− ·5	− ·2	0·1
3 „	·1	·9	·2	·1	·3	·0	·2	·1	·2	·3	− ·1	·2	0·2
4 „	·2	·6	·2	·1	·1	·0	·2	·1	·1	·2	·2	·6	0·2
5 „	·2	·6	·2	·0	·1	·0	·5	·1	·1	·3	·4	·6	0.3
6 „	·3	·4	·0	·0	·0	·0	− ·1	− ·2	− ·2	·5	·3	·7	0.1
7 „	·4	·5	·1	·1	·1	·0	− ·1	− ·1	− ·2	·5	·5	·7	0·2
8 „	·3	·4	·1	1	− ·1	·0	− ·1	− ·1	− ·2	·3	·5	·7	0·2
9 „	·2	·0	·1	·1	− ·1	− ·2	− ·1	− ·1	− ·2	·2	·5	·3	0·1
10 „	·1	− ·2	− ·1	·1	− ·1	− ·2	− ·1	− ·1	− ·2	·1	·0	− ·1	− 0·1
11 „	·0	− ·2	·1	·1	·1	− ·2	− ·1	− ·1	− ·1	·0	.0	− ·3	− 0·1

TABLE XCV.—*Mean Weight, in Grains, of Vapour required for complete Saturation of a Cubic Foot of Air, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.
1	1·9		2·4	4·5	2·2		2·0	0·3	1·3	1·7		2·3
2	2·0	2·7		5·1	1·5	1·9	2·0		0·9	1·7	1·2	2·2
3	1·9	2·2	1·9	3·9		2·0	2·0	0·9	1·3	1·8	2·6	2·3
4		2·2	2·1	3·9	1·8	3·1	2·2	0·6	1·3		2·5	2·0
5	1·5	3·1	2·1		1·6	3·7			1·0	1·1	2·4	3·8
6	2·5	2·8	2·4	3·5	1·9	4·3	1·8	0·3		1·3	1·6	
7	2·7	2·2	3·2	2·6	1·1		1·4	0·6	1·0	1·3	1·0	3·2
8	1·7			2·6	1·9	3·1	1·7	0·6	1·0	1·4		3·5
9	1·9	2·7	1·9	2·6	2·9	3·4	2·0		0·6	1·8	2·2	3·5
10	2·0	3·1	2·1			3·8	2·1	0·5	0·6	1·4	3·1	3·7
11		3·3		2·7	3·5	2·3	2·7	0·6	1·3		3·1	3·1
12	2·0	3·9	2·0		4·1	2·4		0·9	1·3	2·3	2·8	4·1
13	1·8	3·7	1·6	2·6	3·2	2·4	2·5	1·0		2·8	2·8	
14	2·1	2·2	1·6	2·4	3·4		2·2	1·0	1·3	2·2	3·1	2·0
15	2·2			2·3	3·5	2·4	2·0		1·6	1·4		2·2
16	2·4	2·1	1·9	3·0	3·7	2·1	1·9		1·3	1·8	3·0	3·0
17	2·6	2·6	3·2	3·9		1·8	1·8	0·6	0·6		3·6	2·4
18		2·4	4·6	3·2	3·8	0·8	1·8	0·6	0·6		3·9	2·5
19	2·4	2·7	5·2		3·8	1·7		0·3	0·3	1·4	3·3	2·4
20	2·8	1·8	3·8	3·7	3·3	1·8	1·7	0·5		1·5	3·3	
21	3·6	1·3	2·3	3·4	3·3		1·7	0·8	0·3	2·4	3·9	2·4
22	2·9			3·1	3·6	1·8	1·0	0·9	0·9	2·6		2·2
23	2·8	2·8	4·2	2·6	3·9	0·6	1·5		1·6	3·1	3·4	2·6
24	2·8	2·7	4·7	2·4		0·9	1·8	1·3	1·6	3·1	3·2	2·4
25		2·2	3·9	2·2	2·7	1·0	0·8	1·0	1·3		2·9	
26	2·0	3·7	3·2		3·2	1·4		1·3	1·6	3·6	2·0	2·4
27	2·7	3·7	2·7	1·8	2·4	1·4	0·9	1·2		3·3	1·8	
28	2·7	3·2	3·0	2·1	2·5		0·3	1·3	2·2	2·2	1·6	3·4
29	3·0			2·1	3·7	1·6	0·3	1·3	2·2	2·0	2·1	3·0
30	2·8		2·3	2·5	3·7	1·7	0·0	1·6	1·6	1·9		3·0
31	2·7		3·0		3·9		0·6			1·7		2·7
Mean.	2·4	2·8	3·0	3·0	2·9	2·1	1·6	0·8	1·2	2·0	2·6	2·8

TABLE XCVI.—*Mean Weight, in Grains, of Vapour required for complete Saturation of a Cubic Foot of Common Air, in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.
Midnight.	1·6	2·0	1·7	1·9	1·7	1·5	1·2	0·6	0·7	1·2	1·3	1·7	1·4
1 A. M.	1·4	1·8	1·5	1·7	1·7	1·5	1·0	0·6	0·7	1·2	1·5	1·8	1·4
2 „	1·4	1·6	1·5	1·6	1·9	1·3	1·0	0·6	0·7	1·2	1·3	1·8	1·3
3 „	1·3	1·8	1·0	1·7	1·7	1·3	1·0	0·6	0·6	1·1	1·4	1·8	1·3
4 „	1·4	1·8	1·2	1·5	1·7	1·5	1·0	0·6	0·6	1·0	1·6	1·5	1·3
5 „	1·5	1·8	1·2	1·8	1·6	1·0	1·0	0·6	0·6	1·1	1·3	1·7	1·3
6 „	1·4	1·7	1·3	1·5	1·4	1·3	1·0	0·5	0·5	0·9	1·5	1·5	1·2
7 „	1·3	1·7	1·5	2·4	2·1	1·7	1·3	0·5	0·5	1·2	1·6	1·6	1·4
8 „	1·7	2·3	2·6	3·1	2·9	2·1	1·7	0·6	0·8	1·7	2·2	2·0	2·0
9 „	2·7	3·2	3·6	3·8	3·7	2·1	1·7	0·9	1·1	2·2	2·7	2·8	2·5
10 „	2·9	3·9	4·2	4·6	4·1	2·7	2·1	1·2	1·4	2·6	3·4	3·4	3·0
11 „	3·7	4·4	4·6	4·9	4·5	3·3	2·1	1·2	1·7	3·2	4·0	4·2	3·5
Noon.	4·2	4·8	5·1	5·2	4·9	3·7	2·1	1·4	1·9	3·7	5·1	5·2	3·9
1 P. M.	4·2	4·5	5·2	4·9	5·1	3·7	2·4	1·4	2·0	4·0	5·4	5·4	4·0
2 „	4·1	4·2	5·3	5·0	5·4	3·7	2·8	1·3	2·2	4·1	5·6	5·4	4·1
3 „	4·2	4·2	5·3	5·2	4·6	3·5	2·8	1·7	2·1	3·9	5·2	5·0	4·1
4 „	4·0	4·5	4·9	4·8	4·8	3·1	2·4	1·3	2·1	3·8	4·6	4·2	3·7
5 „	3·4	3·8	4·5	4·1	4·0	2·7	1·4	1·0	1·8	3·1	3·3	3·3	3·0
6 „	2·5	3·0	3·3	3·4	3·3	2·4	1·7	1·0	1·5	2·1	2·8	2·6	2·5
7 „	2·2	2·4	2·8	2·6	2·4	2·0	1·3	0·9	1·3	1·8	2·3	2·3	2·0
8 „	2·1	2·2	2·4	2·6	2·6	1·7	1·3	0·9	1·2	1·6	2·3	2·3	1·9
9 „	1·9	2·3	2·2	2·2	2·3	1·9	1·3	0·6	1·1	1·6	2·0	2·2	1·8
10 „	1·8	2·4	2·3	2·2	2·3	1·5	1·3	0.6	0·9	1·4	1·9	2·0	1·7
11 „	1·7	2·1	1·8	1·9	1·7	1·5	1·0	0·9	0·8	1·4	1·6	2·0	1·5
Diurnal Range.	2·9	3·2	4·3	3·7	4·0	2·7	1·8	1·2	1·7	3·2	4·3	3·9	2·7

TABLE XCVII.—*Excess of the Mean Hourly Weight in Grains of Vapour required for complete Saturation, above the Monthly Mean Value.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.	gr.
Midnight.	-0·8	-0·8	-1·3	-1·1	-1·2	-0·6	-0·4	-0·2	-0·5	-0·8	-1·3	-1·1	-0·8
1 A. M.	-1·0	-1·0	-1·5	-1·3	-1·2	-0·6	-0·6	-0·2	-0·5	-0·8	-1·1	-1·0	-0·9
2 „	-1·0	-1·2	-1·5	-1·4	-1·0	-0·8	-0·6	-0·2	-0·5	-0·8	-1·3	-1·0	-0·9
3 „	-1·1	-1·0	-2·0	-1·3	-1·2	-0·8	-0·6	-0·2	-0·6	-0·9	-1·2	-1·0	-1·0
4 „	-1·0	-1·0	-1·8	-1·5	-1·2	-0·6	-0·6	-0·2	-0·6	-1·0	-1·0	-1·3	-1·0
5 „	-0·9	-1·0	-1·8	-1·2	-1·3	-1·1	-0·6	-0·2	-0·6	-0·9	-1·3	-1·1	-1·0
6 „	-1·0	-1·1	-1·7	-1·5	-1·5	-0·8	-0·6	-0·3	-0·7	-1·1	-1·1	-1·3	-1·1
7 „	-1·1	-1·1	-1·5	-0·6	-0·8	-0·4	-0·3	-0·3	-0·7	-0·8	-1·0	-1·2	-0·8
8 „	-0·7	-0·5	-0·4	0·1	0·0	0·0	0·1	-0·2	-0·4	-0·3	-0·4	-0·8	-0·3
9 „	0·3	0·4	0·6	0·8	0·8	0·0	0·1	0·1	-0·1	0·2	0·1	0·0	0·3
10 „	0·5	1·1	1·2	1·6	1·2	0·6	0·5	0·4	0·2	0·6	0·8	0·6	0·8
11 „	1·3	1·6	1·6	1·9	1·6	1·2	0·5	0·4	0·5	1·2	1·4	1·4	1·2
Noon.	1·8	2·0	2·1	2·2	2·0	1·6	0·5	0·6	0·7	1·7	2·5	2·4	1·7
1 P. M.	1·8	1·7	2·2	1·9	2·2	1·6	0·8	0·6	0·8	2·0	2·8	2·6	1·8
2 „	1·7	1·4	2·3	2·0	2·5	1·6	1·2	0·5	1·0	2·1	3·0	2·6	1·8
3 „	1·8	1·4	2·3	2·2	1·7	1·4	1·2	0·9	0·9	1·9	2·6	2·2	1·7
4 „	1·6	1·7	1·9	1·8	1·9	1·0	0·8	0·5	0·9	1·8	2·0	1·4	1·4
5 „	1·0	1·0	1·5	1·1	1·1	0·6	-0·2	0·2	0·6	1·1	0·7	0·5	0.8
6 „	0·1	0·2	0·3	0·4	0·4	0·3	0·1	0·2	0·3	0·1	0·2	-0·2	0.2
7 „	-0·2	-0·4	-0·2	-0·4	-0·5	-0·1	-0·3	0·1	0·1	-0·2	-0·3	-0·5	-0·2
8 „	-0·3	-0·6	-0·6	-0·4	-0·3	-0·4	-0·3	0·1	0·0	-0·4	-0·3	-0·5	-0·3
9 „	-0·5	-0·5	-0·8	-0·8	-0·6	-0·2	-0·3	-0·3	-0·1	-0·4	-0·6	-0·6	-0·5
10 „	-0·6	-0·4	-0·7	-0·8	-0·6	-0·6	-0·3	-0·3	-0·3	-0·6	-0·7	-0·8	-0·6
11 „	-0·7	-0·7	-1·2	-1·1	-1·2	-0·6	-0·6	-0·3	-0·4	-0·6	-1.0	-0·8	-0·8

TABLE XCVIII.—*Mean Quantity of Water Evaporated in the Atmospheric Air, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1	0·167		0·228	0·427	0·206		0·169	0·026	0·133	0·154		0·213
2	·184	0·265		·471	·138	0·188	·169		·085	·161	0·155	·215
3	·160	·193	·185	·356		·205	·185	·076	·109	·168	·193	·219
4		·208	·209	·357	·174	·299	·200	·080	·111		·234	·193
5	·135	·286	·189		·161	·356			·109	·101	·209	·348
6	·234	·264	·230	·322	·160	·404	·181	·040		·124	·145	
7	·244	·225	·308	·242	·122		·143	·081	·098	·123	·093	·302
8	·166			·232	·165	·317	·158	·074	·089	·127		·301
9	·165	·249	·159	·224	·288	·329	·181		·087	·166	·215	·323
10	·182	·293	·193			·352	·209	·062	·066	·133	·295	·328
11		·317		·351	·336	·231	·253	·060	·122		·283	·284
12	·187	·353	·187		·390	·220		·085	·129	·217	·253	·300
13	·170	·324	·164	·253	·312	·233	·248	·107		·268	·269	
14	·203	·193	·141	·239	·323		·218	·109	·115	·222	·299	·115
15	·208			·230	·319	·210	·205		·132	·137		·213
16	·220	·207	·185	·293	·334	·221	·192		·141	·172	·277	·282
17	·249	·246	·304	·368		·169	·180	·057	·055		·331	·212
18		·232	·441	·299	·357	·089	·181	·058	·063		·376	·219
19	·217	·262	·499		·371	·151		·059	·039	·123	·309	·224
20	·260	·173	·343	·352	·314	·170	·161	·056		·131	·318	
21	·323	·105	·197	·317	·311		·166	·062	·036	·224	·361	·252
22	·266			·287	·334	·177	·098	·091	·073	·245		·211
23	·266	·278	·371	·245	·352	·076	·139		·138	·290	·314	·237
24	·268	·249	·449	·225		·079	·171	·112	·133	·290	·301	·231
25		·227	·360	·200	·281	·104	·080	·116	·116		·218	
26	·196	·333	·299		·308	·135		·129	·145	·335	·192	·242
27	·252	·339	·260	·188	·239	·132	·085	·121		·314	·168	
28	·251	·308	·290	·208	·244		·028	·126	·194	·203	·158	·319
29	275			·199	·332	·148	·044	·134	·184	·187	·177	·296
30	·260		·233	·219	·347	·166	·000	·158	·150	·188		·286
31	·248		·298		·358		·064			·163		·273
Mean.	·218	·257	·267	·282	·279	·204	·149	·085	·108	·190	·247	·259
Monthly Evaporated Water.	6·838	7·151	8·335	8·525	8·698	6·193	4·717	2·686	3·291	5·921	7·372	8·034

TABLE XCIX.—*Mean Quantity of Water Evaporated in Atmospheric Air, in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight.	0·006	0·009	0·006	0·007	0·007	0·006	0·005	0·003	0·003	0·005	0·005	0·007	0·006
1 A.M.	·005	·007	·006	·007	·007	·006	·004	·003	·003	·004	·005	·007	·005
2 „	·005	·006	·005	·006	·007	·006	·004	·003	·003	·004	·005	·007	·005
3 „	·005	·006	·004	·006	·007	·005	·004	·002	·002	·004	·005	·006	·005
4 „	·006	·007	·005	·006	·006	·005	·004	·002	·002	·004	·005	·006	·005
5 „	·006	·007	·005	·006	·006	·005	·004	·002	·002	·003	·005	·006	·005
6 „	·005	·007	·005	·006	·006	·005	·004	·002	·002	·004	·005	·006	·005
7 „	·005	·006	·006	·009	·009	·007	·005	·002	·002	·004	·006	·006	·006
8 „	·007	·009	·010	·013	·012	·008	·006	·003	·003	·007	·009	·008	·008
9 „	·009	·013	·014	·016	·014	·009	·006	·004	·004	·009	·011	·011	·010
10 „	·011	·015	·016	·018	·016	·011	·008	·004	·005	·010	·013	·014	·012
11 „	·014	·017	·018	·019	·018	·012	·009	·005	·006	·013	·016	·017	·014
Noon.	·016	·018	·020	·020	·020	·014	·009	·005	·007	·014	·020	·020	·015
1 P.M.	·017	·017	·021	·020	·020	·015	·010	·006	·008	·015	·021	·022	·016
2 „	·017	·017	·020	·020	·021	·014	·010	·006	·008	·016	·021	·021	·016
3 „	·016	·017	·020	·020	·019	·014	·010	·006	·008	·015	·020	·020	·015
4 „	·016	·017	·019	·019	·019	0·12	·009	·005	·008	·014	·017	·017	·014
5 „	·013	·015	·017	·016	·015	·011	·008	·004	·007	·012	·013	·013	·012
6 „	·010	·012	·013	·012	·012	·009	·007	·004	·006	·008	·011	·010	·010
7 „	·008	·009	·011	·011	·010	·008	·006	·004	·005	·007	·010	·009	·008
8 „	·008	·009	·010	·010	·010	·008	·005	·004	·004	·006	·008	·009	·008
9 „	·007	·009	·009	·009	·009	·007	·005	·003	·004	·005	·008	·009	·007
10 „	·007	·009	·009	·009	·008	00·6	·005	·003	·004	·005	·007	·008	·007
11 „	·007	·008	·007	·008	·008	·006	·005	·003	·003	·005	·007	·008	·006
Mean.	·009	·011	·011	·012	·012	·009	·006	·004	·004	·008	·011	·011	0·009

TABLE C.—*Excess of the Mean Hourly Quantity of Water Evaporated in Air, above the Mean of the whole Twenty-four Hours.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Midnight.	-0·003	-0·002	-0·005	-0·005	-0·005	-0·003	-0·001	-0·001	-0·001	-0·003	-0·006	-0·004	-0·003
1 A. M.	-·004	-·004	-·005	-·005	-·005	-·003	-·002	-·001	-·001	-·004	-·006	-·004	-·004
2 „	-·004	-·005	-·006	-·006	-·005	-·003	-·002	-·001	-·001	-·004	-·006	-·004	-·004
3 „	-·004	-·005	-·007	-·006	-·005	-·004	-·002	-·002	-·002	-·004	-·006	-·005	-·004
4 „	-·003	-·004	-·006	-·006	-·006	-·004	-·002	-·002	-·002	-·004	-·006	-·005	-·004
5 „	-·003	-·004	-·006	-·006	-·006	-·004	-·002	-·002	-·002	-·005	-·006	-·005	-·004
6 „	-·004	-·004	-·006	-·006	-·006	-·004	-·002	-·002	-·002	-·004	-·006	-·005	-·004
7 „	-·004	-·005	-·005	-·003	-·003	-·002	-·001	-·002	-·002	-·004	-·005	-·005	-·003
8 „	-·002	-·002	-·001	·001	·000	-·001	·000	-·001	-·001	-·001	-·002	-·003	-·001
9 „	·000	·002	·003	·004	·002	·000	·000	·000	·000	·001	·000	·000	·001
10 „	·002	·004	·005	·006	·004	·002	·002	·000	·001	·002	·002	·003	·003
11 „	·005	·006	·007	·007	·006	·003	·003	·001	·002	·005	·005	·006	·005
Noon.	·007	·007	·009	·008	·008	·005	·003	·001	·003	·006	·009	·009	·006
1 P. M.	·008	·006	·010	·008	·008	·006	·004	·002	·004	·007	·010	·011	·007
2 „	·008	·006	·009	·008	·009	·005	·004	·002	·004	·008	·010	·010	·007
3 „	·007	·006	·009	·008	·007	·005	·004	·002	·004	·007	·009	·009	·006
4 „	·007	·006	·008	·007	·007	·003	·003	·001	·004	·006	·006	·006	·005
5 „	·004	·004	·006	·004	·003	·002	·002	·000	·003	·004	·002	·002	·003
6 „	·001	·001	·002	·000	·000	·000	·001	·000	·002	·000	·000	-·001	·001
7 „	-·001	-·002	·000	-·001	-·002	-·001	·000	·000	-·001	-·001	-·001	-·002	-·001
8 „	-·001	-·002	-·001	-·002	-·002	-·001	-·001	·000	·000	-·002	-·003	-·002	-·001
9 „	-·002	-·002	-·002	-·003	-·003	-·002	-·001	-·001	·000	-·003	-·003	-·002	-·002
10 „	-·002	-·002	-·002	-·003	-·004	-·003	-·001	-·001	·000	-·003	-·004	-·003	-·002
11 „	-·002	-·003	-·004	-·004	-·004	-·003	-·001	-·001	-·001	-·003	-·004	-·003	-·003

WIND.

THE direction of Wind was taken from Osler's Self-registering Anemometer, erected on the Western roof of the Astronomical Observatory. Its force on all ordinary occasions was observed by Lynd's Wind-Gauge; but any force exceeding 2lbs. pressure was taken from Osler's Gauge.

At Bombay the Wind blows from different directions in different seasons of the year; Monsoonish wind generally blows in Summer, and land and sea-breezes in Winter.

Those days on which the wind quits its usual direction are called abnormal days; the days on which the wind turns round the compass are also included in abnormal days.

The following is a list of abnormal days on which the wind has taken unusual sweeps:—

JANUARY, 1857.

On the	3rd	the wind	veered	round	from	ENE.	to	NW.	by a	direct	circular	motion of	248°	in	3½	hours.
„	9th	„	„	„	„	NNW.	to	NW.	„	„	„	„	338	in	7	hours.
„	10th	„	„	„	„	NNW.	to	WNW.	„	„	„	„	338	in	4	hours.
„	11th	„	„	„	„	NNW.	to	E.	„	„	„	„	123	in	½	hour.
„	11th	„	„	„	„	ESE.	to	WNW.	„	„	„	„	180	in	1	hour.
„	12th	„	„	„	„	NE.	to	W. b N.	„	„	„	„	236	in	¼	hour.
„	22nd	„	„	„	„	NE.	to	WNW.	„	„	„	„	247	in	1	hour.

FEBRUARY, 1857.

On the	3rd	the wind	veered	round	from	NW.	to	SE.	by a	direct	circular	motion of	180	in	½	hour.
„	19th	„	„	„	„	ENE.	to	W.	„	„	„	„	203	in	1	hour.
„	21st	the wind blew abnormally on this day.															
„	24th	the wind	veered	round	from	NNW.	to	S.	by a	retrograde	motion	of	203	in	12	hours.
„	25th	„	„	„	„	S.	to	N.	„	„	„	„	180	in	12	hours.

MARCH, 1857.

On the	3rd	the wind	veered	round	from	NW.	to	SW.	by a	direct	circular	motion		in	6	hours.
„	4th	„	„	„	„	WNW.	to	WNW.	„	„	„	„	360	in	8	hours.
„	9th	„	„	„	„	WNW.	to	W.	„	„	„	„	338	in	2½	hours.
„	13th	the wind blew abnormally on this day.															
„	21st	„	„	„	„	„											
„	22nd	„	„	„	„	„											
„	29th	„	„	„	„	„											
„	30th	„	„	„	„	„											

APRIL, 1857.

On the	8th	the wind	veered	round	from	NW. b N.	to	NW.	by a	direct	circular	motion of	349	in	2	hours.
„	15th	„	„	„	„	NNW.	to	WNW.	„	„	„	„	315	in	3½	hours.
„	23rd	„	„	„	„	NW. b N.	to	SW.	„	„	„	„	259	in	2½	hours.
„	24th	the wind blew abnormally on this day.															
„	25th	„	„	„	„	„											
„	26th	the wind	veered	round	from	N. b W.	to	WNW.	„	„	„	„	303	in	3½	hours.

May, 1857.

On the 8th the wind veered round from N. to NW. by a direct circular motion of 315° in 4 hours.
„ 23rd „ „ „ „ NW. to NW. „ „ „ „ 360 in 9 hours.
„ 24th the wind blew abnormally on this day.
„ 25th the wind veered round from W. to SSW. „ „ „ „ 292 in 3¾ hours.
„ 27th the wind blew abnormally on this day.
„ 28th the wind veered round from SE. to WNW. by a retrograde motion of 427 in 4½ hours.

June, 1857.

On the 2nd the wind took three sweeps from W. b N. to SW. by a retrograde motion of 416 in 14 hours.
„ 3rd the wind veered round from WNW. to WNW. by a direct circular motion of 360 in 6½ hours.
„ 12th „ „ „ „ NW. to WSW. „ „ „ „ in 2¾ hours.
„ 13th „ „ „ „ ESE. to W. „ „ „ „ 495 in 10 hours.
„ 13th „ „ „ „ WSW. to N. by a retrograde motion of 247 in 1¾ hour.
„ 14th „ „ „ „ S. to S. by a direct circular motion of 360 in 4½ hours.
„ 24th the wind blew abnormally on this day.

July, 1857.

On the 27th the wind blew abnormally on this day.
„ 28th „ „ „ „
„ 30th the wind veered round from SSW. to WNW. by a direct circular motion of 432 in 10 hours.

August, 1857.

During this month the wind did not take any sweeps round about the compass, but was blowing in its usual direction.

September, 1857.

On the 8th the wind veered round from WSW. to NW. by a direct circular motion of 428 in 15 hours.
„ 25th „ „ „ „ WNW. to SSW. „ „ „ „ 268 in 12 hours.
„ 28th „ „ „ „ NW. to NNW. „ „ „ „ 382 in 10½ hours.

October, 1857.

On the 2nd the wind veered round from W. to N. by a direct circular motion of 450 in 14 hours.
„ 10th the wind blew abnormally on this day.
„ 14th „ „ „ „ „
„ 16th „ „ „ „ „
„ 17th „ „ „ „ „
„ 18th the wind veered round from NNE. to W. by a direct circular motion of 248 in 3 hours.
„ 19th „ „ „ „ N. to SW. b W. „ „ „ „ 236 in 1½ hour.
„ 20th „ „ „ „ SW. b W. to NW. „ „ „ „ 124 in ½ hour.
Between 21st and 22nd the wind was blowing from sunset to sunrise from South.

November, 1857.

On the 7th the wind blew abnormally this day.
„ 8th „ „ „ „
„ 9th the wind veered round from SE. to N. by a direct circular motion of 228 in 4 hours.
Between 15th & 16th the wind veered round from E. to E. by a retrograde motion of 360 in 20 hours.

December, 1857.

The wind took no sweeps during this month, but was blowing in different directions usual for the season.

TABLE CI.—*Showing, for each Month, the Excess of the Direct Circular Motion above the Retrograde Motion.*

Months, 1857.	Excess of the Direct Circular Motion over the Retrograde.	Months, 1857.	Excess of the Direct Circular Motion over the Retrograde.
	t. dg.		t. dg.
January.....	2171°= 6 & 11	July.....	529°= 1 & 169
February.....	360 = 1 & 0	August.....	-146 = 0 & 146
March.....	1080 = 3 & 0	September	1080 = 3 & 0
April	1983 = 3 & 103	October	1137 = 3 & 57
May.....	653 = 1 & 293	November	-349 = 0 & 349
June.....	1068 = 2 & 348	December.....	- 23 = 0 & 23

The excess of the direct circular motion over the retrograde during the year 1857 was 8743 degrees, or 24 turns and 103 degrees.

The thirty-two points of the compass, or the thirty-two directions, were reduced to eight points by the following arrangement:—

N. = ½ NNW. + N. b W. + N. + N. b E. + ½ NNE.
NE. = ½ NNE. + NE. b E. + NE. + NE. b N. + ½ ENE.

The sums of Pressures and the hours of Duration of each Wind in the following Wind Tables were reduced by the above arrangement. Those directions are only taken into consideration the force of which exceeded 0·1 lb.

TABLE CII.—*Showing the Sums of the Pressures of Wind for different Directions in every Month without Distinction of Hours, and the Number of Hours during which it blew with a recorded force greater than 0·1 lb. on a square foot: and the General Range of Hours during which the Wind blew in each Direction.*

Month,* 1857.	N.			NE.			E.			SE.		
	Sums of Pressures.	Number of Hours.	General Range of Hours.	Sums of Pressures.	Number of Hours.	General Range of Hours.	Sums of Pressures.	Number of Hours.	General Range of Hours.	Sums of Pressures.	Number of Hours.	General Range of Hours.
	lbs.	H.		lbs.	H.		lbs.	H.		lb.	H.	
January..	11·95	80·5	At all hours, except 1 A. M.	8·10	48·0	From 3 A. M. to Noon.	1·85	14·5	From 6 A. M. to Noon.			
February .	13·75	76·0	At all hours.	4·00	28·5	From 2 A. M. to Noon.	0·75	5·5	From 6 A. M. to 11 A. M.	1·10	7·5	From 1 A. M. to 9 A. M.
March ..	7·90	47·0	At all hours, except 3 and 4 P. M.	2·05	16·5	From 4 A. M. to 1 P. M.	2·35	17·0	From 4 A. M. to Noon.	1·20	7·5	Occasionally.
April	8·80	40·5	At all hours, except from 2 to 7 P. M., and at 11 P. M.	1·80	13·0	From 7 A. M. to Noon.	0·45	3·5	A few instances.	1·90	9·0	From 3 to 8 A. M., and at 10 and 11 A. M.
May	4·55	18·0	At all hours, except from Noon to 7 P. M.	0·45	4·5	A few instances.	0·25	1·5	No instance of true East.	1·95	10·0	From 2 to 9 A. M., and at 9 and 10 P. M.
June	0·55	3·5	A single instance of true North.	0·35	1·5	At 11 P. M. and Midnight.	1·25	7·0	Occasionally.	16·30	25·0	From 1 to 7 A. M., and at 11 A. M. Noon, 2, 3, 10 & 11 P. M.
July	0·20	0·5	No instance.	0·90	2·0	At 2 A. M. and 10 & 11 P.M.	0·30	1·5	A single instance.	0·75	4·0	A few instances.
August ..	..	..	.....	0·40	1·0	A single instance.						
September.	0·55	3·0	At 11 A. M. and Noon.	1·75	11·0	At 1 A. M. & from 6 A. M. to Noon.	1·45	10·5	From 1 A. M. to 4 A. M., and from 9 A. M. to Noon.	1·05	7·0	A few instances.
October ..	23·95	109·5	At all hours, except 7 A. M.	10·90	77·5	At all hours, except from 6 to 9 P. M.	10·40	65·0	At all hours, excepting Midnight and 1, 2, 3, 4, 6, 8, 9, P. M.	0·50	3·0	No instances of true SE.
November.	28·05	124·0	At all hours.	13·55	95·0	At all hours, except from 2 to 8 P. M.	15·10	86·5	At all hours, excepting Midnight, and from 2 P. M. to 9 P. M.	0·85	6·5	A few instances.
December .	38·55	197·5	At all hours, except 7 A. M.	18·95	141·0	At all hours, except from 3 to 8 P. M.	6·95	40·0	From 5 A. M. to 1 P. M., and at 4 and 5 P. M.			
Sums	138·80	700·0		63·20	439·5		41·10	252·5		25·60	79·5	

TABLE CII. *(continued.)*

Months, 1857.	S.			SW.			W.			NW.			For the whole Year.	
	Sums of Pressures.	Number of Hours.	General Range of Hours.	Sums of Pressures.	Number of Hours.	General Range of Hours.	Sums of Pressures.	Number of Hours.	General Range of Hours.	Sums of Pressures.	Number of Hours.	General Range of Hours.	Sums of Pressures in each Month.	Duration.
	lbs.	H.		lbs.	H.		lbs.	H.		lbs.	H.			
January..				0·30	3·0	Only one instance of true SW.	6·40	35·5	From Noon to 7 P. M.	54·80	223·5	At all hours.	83·40	405·0
February..	0·50	5·0	A few instances.	0·40	4·0	Only 3 instances.	11·60	34·5	From Noon to Midnight.	65·80	197·0	At all hours.	97·90	358·0
March ..	3·55	23·0	Occasionally.	3·45	26·5	From 3 to 6 A. M. and Noon to 11 P. M.	8·50	45·5	From 11 A. M. to 8 P. M. and from 11 P. M. to 2 A. M.	84·45	241·0	At all hours.	113·45	424·0
April	2·60	15·5	Occasionally.	2·60	18·5	From 11 A. M. to 7 P. M.	9·35	46·5	At all hours, except 9 and 10 A. M.	112·05	316·0	At all hours.	139·55	462·5
May	18·45	35·5	At all hours, except from 3 to 8 P. M.	11·65	83·5	At all hours.	29·75	213·5	At all hours.	30·35	165·5	At all hours.	97·40	532·0
June	54·60	106·0	At all hours.	51·25	14·90	At all hours.	42·70	137·5	At all hours.	9·00	48·5	At all hours, except from 10 P. M. to 1 A. M.	176·00	478·0
July	3·00	15·5	Occasionally.	59·75	21·45	At all hours.	93·30	358·0	At all hours.	12·60	35·0	At all hours, except from 6 P. M. to 1 A. M.	170·80	631·0
August ..				66·35	13·70	At all hours.	226·60	415·5	At all hours.	7·25	15·5	Occasionally.	300·60	569·0
September.	8·25	34·5	At all hours, except 5, 7, and 8 P. M.	21·15	94·5	At all hours, except Midnight, 1 A. M. and 10 P. M.	33·50	180·0	At all hours.	20·00	77·5	At all hours.	92·70	418·0
October ..	2·75	14·5	Occasionally.	1·75	12·0	Occasionally.	1·75	12·5	From 11 A. M. to 7 P. M.	28·50	128·0	At all hours except 5, 6, and 7 A. M.	80·50	422·0
November.	1·10	11·0	A few instances.	0·60	6·0	A single instance of true SW.	1·50	12·0	From Noon to 7 P. M.	19·25	88·0	From Noon to Midnight.	80·00	429·0
December.										25·95	95·5	From Noon to Midnight.	90·40	474·0
Sums	94·80	260·5		219·25	748·5		469·95	1491·0		470·00	1631·0		1522·70	5602·5

It appears from this table that the Force of W. and NW. Wind was greater than all the other directions of Wind; next in order were SW. and N. The Duration of NW. Wind exceeded all the other Winds; next in order was W.

The Record of the Forces of Wind when the Pressure was above 1 lb.

JAN. 14th, 19th, 21st, 23rd, 26th, 27th, 29th.—Fresh breezes in the afternoon, from W. or NW., the maximum force between 1 and 2 lbs.

FEB. 4th, 5th, 10th, 11th, 13th, 21st, 22nd, 23rd, 26th.—Fresh breezes in the afternoon, from WNW., the force of which was greater than 1 lb. but less than 2 lbs.

MAR. 18th, 19th, 23rd, 24th, 25th, 26th, 27th.—Fresh breezes in the afternoon from NW., force being about 1 lb.; it was about 2½ lbs. on the 23rd instant at 2h. 35m. P. M.

APRIL 4th.—Fresh breezes of wind from NW. in the afternoon, the force of which was about 2⅜ at 7h. 30m. P. M.

„ 6th.—Fresh breezes in the evening from W., the force of which was about 1 lb.

„ 16th.—Fresh breezes from NNW., the force of which was about 2½ lbs. at 2h. P. M.

„ 17th, 20th, 21st, 30th.—Fresh breezes of wind from NW., the force of which was about 1 lb.

MAY 2nd.—Fresh breezes in the morning from S., the force of which was about 2 lbs.

„ 7th.—NW. breezes in the afternoon, the force of which was about 1 lb.

„ 27th.—The force of easterly wind at 7h. 15m. P. M. was about 5¾ lbs.

JUNE 13th.—Squally wind from ESE., the force of which was about 2 lbs.; this squall lasted about half an hour.

„ 15th.—Squally wind at 3h. 30m. P. M. from SSE., the force of wind was 3½ lbs.; this squall lasted for about one hour.

„ 16th and 17th.—Southerly wind in the morning and evening, the force of which was 1 lb.

„ 18th.—Wind blowing from SSW., between 1 and 2 hours P. M., the force of wind being 4½ lbs.

„ 19th, 20th, 22nd, 23rd, and 24th.—Occasional squalls from S. or SW.; maximum force about 2 lbs.

„ 25th to 29th.—Monsoon gales from S. or SW.; the force of wind was generally 2 or 3 lbs., but sometimes it rose as high as 5 lbs. and once it rose to 10 lbs.

„ 30th, and July 2nd.—Occasional squalls from SW. and W., the force of wind at 3h. P. M. on the 2nd was 4¾ lbs., but did not exceed 4 lbs. in any other case.

JULY 4th.—Squally wind at 5h. 30m. P. M., the force of wind was about 3½ lbs.

„ 5th, 6th, 7th.—Occasional squalls from WSW., the force of which was about 2 lbs.

„ 13th, 14th, 15th.—Steady monsoon gales from WSW., the force of which being about 2 or 3 lbs.

„ 16th.—Squally wind at about Midnight, the wind blowing from WSW.

„ 20th.—Squally wind at noon, the force of wind was 3½ lbs.

„ 22nd, 23rd, 24th, 26th, 27th, and 28th.—Occasional squalls from W., the force of wind being about 1 or 2 lbs.

AUG. 1st.—Fresh breezes in the morning; the wind being variable, the force of which was more than 1 lb.

„ 2nd, 3rd, and 4th.—Light breezes of wind in the afternoon.

„ 6th to 17th (inclusive).—High winds blowing, the wind's force was generally 4 or 5 lbs.; the direction of wind being generally Westward.

„ 18th, 19th, 20th, 21st, 22nd, 27th, 28th, and 29th.—Occasional squalls from W., the force of which was generally 2 lbs.; but on the 18th, at 6½h. A. M., it had risen to 4 lbs.

SEPT. 1st, 2nd, and 3rd.—Light breezes of wind in the afternoon, the force being 1 lb.

OCT. 10th.—Squally at about midnight from SSE., the force of which was 2 lbs.

„ 14th, and 16th.—Squally after sunset from SSE., the maximum force of which was about 2 lbs.

NOV. 4th.—Light breezes of wind in the afternoon.

DEC. 12th.—Light breezes of wind in the afternoon.

TABLE CIII.—*Showing the Sums of the Pressures and the Hours of Duration of each Wind during the Year* 1857, *for each Hour of Bombay Civil Time.*

Bombay Civil Time.	N.		NE.		E.		SE.		S.		SW.		W.		NW.		Bombay Civil Time.
	Sums of Forces.	Number of Hours.	Sums of Forces.	Number of Hours.	Sums of Forces.	Number of Hours.	Sums of Forces.	Number of Hours.	Sums of Forces.	Number of Hours.	Sums of Forces.	Number of Hours.	Sums of Forces.	Number of Hours.	Sums of Forces.	Number of Hours.	
	lbs.	H.	lbs.	H.	lbs.	H.	lbs.	H.	lbs.	H.	lbs.	H.	lbs.	H.	lbs.	P.	
Midnight.	3·80	29·5	1·30	7·0			0·05	0·5	5·95	14·0	7·05	25·0	19·40	54·0	10·15	45·0	Midnight.
1 A. M.	2·60	12·5	2·05	11·5	0·50	3·5	1·40	3·5	3·10	14·0	9·30	25·5	14·45	47·5	8·40	50·0	1 A. M.
2 „	2·45	12·5	2·40	16·5	0·70	6·5	1·60	4·5	3·30	13·0	12·30	27·0	17·90	50·5	8·05	40·5	2 „
3 „	2·90	18·5	3·05	22·5	1·10	8·0	2·85	6·0	5·85	15·0	9·20	23·5	21·75	51·0	9·00	40·5	3 „
4 „	2·25	18·0	3·65	24·5	2·45	11·5	3·35	7·5	6·75	13·0	8·95	24·5	23·00	46·5	7·20	35·5	4 „
5 „	2·75	22·0	3·70	23·5	1·95	12·0	4·00	7·0	5·60	12·5	7·50	24·5	19·50	48·5	5·30	35·0	5 „
6 „	2·30	19·0	4·90	35·5	3·00	15·5	2·20	8·5	4·75	16·5	6·55	24·0	16·70	45·0	3·70	27·0	6 „
7 „	1·95	15·5	5·55	40·5	4·50	26·5	2·10	8·5	4·15	11·5	7·20	23·0	13·40	47·5	3·15	21·0	7 „
8 „	3·20	27·0	6·65	45·5	5·65	33·5	2·40	9·0	3·85	11·0	8·70	27·5	17·50	45·5	3·25	25·0	8 „
9 „	2·45	21·0	8·00	58·0	6·75	35·0	0·80	5·5	4·50	15·0	8·85	34·5	15·45	46·5	4·40	28·5	9 „
10 „	3·65	27·0	7·20	56·0	5·80	39·5	0·70	5·0	4·55	14·5	7·15	34·0	16·00	53·0	6·55	38·0	10 „
11 „	3·85	27·5	5·35	38·5	4·00	31·5	0·55	5·5	4·50	16·0	8·50	34·0	18·70	59·0	9·60	46·5	11 „
Noon.	7·80	47·0	4·65	30·0	2·50	19·0	0·15	1·5	4·50	16·0	8·80	36·0	18·85	66·0	17·65	62·5	Noon.
1 P. M.	6·90	31·5	1·45	12·5	0·25	2·5	0·05	0·5	2·65	7·0	11·20	45·0	22·85	88·0	28·35	95·0	1 P. M.
2 „	7·25	23·5	0·40	3·5			0·20	0·5	2·75	6·5	9·60	37·0	25·65	100·5	43·65	118·5	2 „
3 „	5·95	23·0	0·05	0·5			0·20	1·0	1·25	3·5	11·15	43·0	21·20	90·0	54·80	136·5	3 „
4 „	7·15	21·0	0·05	0·5	0·10	1·0			2·60	5·5	11·15	40·0	21·80	90·5	55·75	145·5	4 „
5 „	6·70	25·0	0·15	1·5	0·10	1·0			1·75	3·5	8·90	36·5	22·25	89·5	45·65	139·0	5 „
6 „	10·80	37·5							2·05	7·0	7·95	29·5	21·05	75·5	41·45	136·5	6 „
7 „	12·95	45·5			0·30	1·0			3·00	4·5	10·45	29·5	23·25	68·5	41·55	117·0	7 „
8 „	17·70	61·0					0·20	0·5	3·75	9·5	10·35	28·0	24·05	61·5	26·70	89·5	8 „
9 „	10·40	53·0	0·30	1·0	0·25	1·5	0·30	1·0	4·55	9·5	7·00	30·0	19·05	58·0	16·25	63·0	9 „
10 „	6·45	44·5	0·95	4·5	0·45	1·5	2·00	2·5	4·35	11·5	8·95	33·5	16·55	55·5	9·70	50·5	10 „
11 „	4·60	37·5	1·40	6·0	0·75	2·0	0·50	1·0	4·75	10·5	12·50	33·5	14·65	53·0	9·75	45·5	11 „

TABLE CIV.—*Showing the Mean Pressure of each Wind at each Hour of Bombay Civil Time, as obtained by dividing the Force of Wind in* TABLE CIII. *by the Hours of Duration of each Wind.*

Bombay Civil Time.	Direction of Wind in 1857.								Bombay Civil Time.
	N.	NE.	E.	SE.	S.	SW.	W.	NW.	
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	
Midnight.	·13	·19		0·10	0·42	0·28	0·36	0·23	Midnight.
1 A. M.	·21	·18	0·14	·40	·22	·36	·30	·17	1 A. M.
2 „	·20	·14	·11	·35	·25	·45	·35	·20	2 „
3 „	·16	·14	·14	·47	·39	·39	·43	·22	3 „
4 „	·12	·15	·21	·44	·52	·36	·49	·20	4 „
5 „	·12	·16	·16	·57	·45	·31	·40	·15	5 „
6 „	·12	·14	·20	·26	·28	·27	·37	·14	6 „
7 „	·13	·13	·17	·24	·36	·31	·38	·15	7 „
8 „	·12	·15	·17	·27	·35	·32	·38	·13	8 „
9 „	·12	·14	·19	·14	·30	·25	·33	·15	9 „
10 „	·13	·13	·15	·14	·31	·21	·30	·17	10 „
11 „	·14	·14	·13	·10	·28	·25	·32	·21	11 „
Noon.	·17	·15	·13	·10	·28	·24	·28	·28	Noon.
1 P. M.	·22	·11	·10	·10	·38	·25	·26	·29	1 P. M.
2 „	·31	·11		·40	·42	·26	·25	·37	2 „
3 „	·26	·10		·20	·30	·26	·24	·40	3 „
4 „	·34	·10	·10		·47	·28	·23	·38	4 „
5 „	·27	·10	·10		·50	·25	·24	·33	5 „
6 „	·29				·29	·27	·28	·30	6 „
7 „	·28		·30		·66	·35	·35	·35	7 „
8 „	·29			·40	·40	·37	·39	·30	8 „
9 „	·20	·30	·17	·30	·48	·23	·33	·26	9 „
10 „	·14	·21	·30	·80	·38	·26	·30	·19	10 „
11 „	·12	·23	·38	·50	·45	·37	·27	·21	11 „

TABLE CV.—*Showing the Mean Force of each Wind resolved into Component Cardinal Directions, by the usual rules of Mechanics.*

Direction of Wind.	Mean Force of each Wind.	Resolved Force in the Direction of				Mean Force due to each Cardinal Direction.
		N.	E.	S.	W.	
N.	0·1983	0·1983				0·5037
NE.	0·1438	·1017	0·1017			
E.	0·1644		·1644			0·4938
SE.	0·3220		·2277	0·2277		
S.	0·3562			·3562		0·7910
SW.	0·2929			·2071	0·2071	
W.	0·3152				·3152	0·7260
NW.	0·2881	·2037			·2037	

The greatest Mean Force of Wind was recorded under Southerly Wind, a fact which nearly coincides with the results of the last year; the next in order were SE. and W.

Now, supposing the force of each Wind to be equal to one another, and measuring the preponderance of the one over the other by the time of duration only, we shall get, by the composition of forces (described in the preceding Volumes), the angle between the resultant and the meridian to be equal to 61°43′00″, which was about 2°22′35″ less than the mean angle of the resultant.

Assuming the sum of hours of duration equal to unity, we have the relative prevalence of westerly wind over all the others in the ratio $\frac{6830}{10000}$. This quantity was about 0·0270 greater than the mean relative value.

TABLE CVI.—*Mean Azimuth of Wind from Osler's Wind Anemometer, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	- 29°	- 31°	- 27°	- 16°	- 27°	- 78°	-126°	- 54°	- 64°	-143	- 5	+ 16
2	- 24	- 39	- 38	*36	-152	⊙	-118	- 64	- 87	⊙	- 8	+ 1
3	⊙	⊙	⊙	- 49	-111	⊙	-109	-103	- 98	- 5	+ 20	+ 9
4	- 29	- 30	⊙	*- 38	-125	-133	-103	- 98	- 99	- 15	+ 2	+ 19
5	- 29	- 55	- 36	- 19	-157	-110	- 96	- 96	- 96	- 43	+ 4	+ 6
6	- 26	- 60	- 49	- 28	- 50	-125	-109	- 97	- 93	- 31	+ 49	+ 37
7	- 34	- 37	- 43	- 48	- 27	-117	- 95	- 97	-104	- 25	-124	+ 27
8	- 36	- 34	- 30	⊙	⊙	-116	-100	- 94	⊙	- 3	-145	+ 19
9	⊙	- 34	⊙	- 25	-125	- 82	- 91	-100	- 76	+ 25	-118	+ 18
10	⊙	- 37	- 27	- 35	-117	- 42	- 75	-101	-115	+ 29	+ 19	+ 19
11	⊙	- 29	+ 7	- 48	-115	-116	- 96	-102	-115	⊙	+ 8	+ 16
12	⊙	- 20	- 64	- 28	- 85	-110	- 85	-118	-152	+ 20	+ 21	+ 9
13	- 2	- 27	-157	- 32	- 49	⊙	- 87	-116	-155	+ 29	+ 12	+ 18
14	- 31	- 44	*- 28	- 47	- 45	-157	-111	-109	-116	+ 6	+ 31	- 9
15	+ 3	- 33	- 36	⊙	- 51	⊙	-115	- 93	-155	+ 7	+ 7	- 11
16	- 19	- 12	- 40	- 41	- 76	-162	-126	- 86	-113	+ 47	⊙	+ 3
17	- 32	- 13	- 34	- 45	- 73	-187	-119	- 91	- 33	* 54	+ 36	+ 5
18	- 11	- 32	- 24	- 66	- 88	-182	-114	- 95	*+ 2	+135	+ 30	+ 2
19	- 20	- 33	- 9	- 43	-124	-164	-110	- 95	- 61	⊙	+ 28	+ 3
20	- 20	- 56	- 87	- 39	-101	-149	- 92	- 80	-108	*- 64	+ 42	+ 24
21	- 26	*-137	*-177	- 24	- 59	-135	- 98	-102	-105	- 31	+ 35	+ 17
22	- 21	- 28	*-130	- 35	- 51	-115	-109	- 98	-150	- 66	+ 42	+ 2
23	- 31	- 29	- 40	*+142	⊙	-101	-119	- 97	-126	+ 31	+ 30	+ 11
24	- 47	- 37	- 25	*-172	- 78	-110	-112	-102	- 92	+ 26	+ 24	+ 9
25	- 45	⊙	- 42	-129	*	- 92	-154	- 78	⊙	+ 27	+ 6	+ 14
26	- 16	- 13	- 49	⊙	*	-106	-103	-114	- 30	+ 32	+ 7	+ 15
27	- 35	- 23	- 46	- 37	*⊙	-102	-111	-120	- 1	+ 12	+ 13	+ 6
28	- 39	- 16	- 80	- 54	⊙	- 90	-112	-110	- 11	+ 15	- 24	+ 14
29	- 23		*-154	- 35	-102	-111	- 90	- 98	+ 3	+ 6	+ 2	+ 24
30	- 13		*-128	- 63	- 96	-124	⊙	- 88	- 36	+ 6	+ 4	+ 19
31	- 20		- 1		- 91		- 74	- 80		- 5		+ 27
Mean.	- 25	- 32	- 57	- 40	- 87	-120	-105	- 96	- 85	+ 3	+ 2	+ 13

* Denotes Abnormal days. ⊙ Denotes Circular days.

TABLE CVII.—*Mean Force of Wind, without regard to the direction in which it blew, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
1	0·08		0·08	0·34	0·13		0·33	0·40	0·40	0·13		0·09
2	0·08	0·10		0·23	0·66	0·12	9·30		0·23	0·13	0·11	0·12
3	0·04	0·08	0·06	0·20		0·10	0·24		0·36	0·22	0·14	0·08
4		0·39	0·17	0·49	0·07	0·08	0·20	0·43	0·18		0·32	0·08
5	0·15	0·28	0·17		0·12	0·06			0·16	0·10	0·23	0·18
6	0·27	0·07	0·12	0·20	0·20	0·05	0·30	0·71		0·12	0·08	
7	0·14	0·12	0·22	0·13	0·20		0·24	0·85	0·06	0·08	0·03	0·19
8	0·06			0·16	0·22	0·05	0·27	0·93	0·15	0·18		0·20
9	0·08	0·16	0·07	0·23	0·16	0·07	0·25		0·18	0·08	0·17	0·18
10	0·06	0·25	0·16			0·12	0·20	0·16	0·15	0·11	0·13	0·21
11		0·25		0·12	0·08	0·05	0·19	0·57	0·13		0·07	0·15
12	0·06	0·18	0·06		0·08	0·14		0·62	0·35	0·12	0·09	0·21
13	0·13	0·43	0·09	0·16	0·18	0·15	0·33	0·57		0·20	0·09	
14	0·31	0·19	0·21	0·19	0·16		0·48	1·19	0·12	0·19	0·09	0·03
15	0·04			0·28	0·12	0·63	0·52		0·08	0·09		0·12
16	0·10	0·15	0·40	0·52	0·10	0·37	0·35		0·10	0·27	0·14	0·16
17	0·05	0·05	0·20	0·38		0·51	0·20	0·55	0·13		0·17	0·13
18		0·10	0·28	0·20	0·08	1·29	0·17	0·50	0·08		0·23	0·13
19	0·15	0·08	0·25		0·09	0·35		0·43	0·15	0·10	0·13	0·12
20	0·06	0·06	0·13	0·32	0·08	0·30	0·14	0·37		0·08	0·16	
21	0·13	0·24	0·15	0·33	0·20		0·13	0·53	0·08	0·10	0·19	0·08
22	0·09			0·18	0·16	0·22	0·30	0·32	0·15	0·11		0·15
23	0·16	0·27	0·37	0·11	0·11	0·18	0·25		0·11	0·10	0·21	0·18
24	0·08	0·09	0·35	0·14		0·20	0·08	0·17	0·10	0·13	0·12	0·05
25		0·18	0·19	0·07	0·09	0·43	0·14	0·27	0·10		0·11	
26	0·33	0·22	0·29		0·14	0·44		0·25	0·08	0·15	0·07	0·18
27	0·29	0·14	0·34	0·21	0·08	0·45	0·24	0·43		0·15	0·09	
28	0·11	0·06	0·17	0·26	0·15		0·30	0·59	0·14	0·10	0·11	0·16
29	0·15			0·22	0·19	0·39	0·34	0·52	0·06	0·11	0·14	0·14
30	0·11		0·09	0·14	0·12	0·59	0·23	0·42	0·04	0·15		0·19
31	0·13		0·14		0·10		0·36			0·08		0·14
Mean.	0·13	0·17	0·19	0·23	0·15	0·29	0·27	0·51	0·15	0·13	0·14	0·15

TABLE CVIII.—*Mean Azimuth of Wind, from Osler's Wind Anemometer, in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	- 36°	- 30°	- 62°	- 52°	- 89°	-130°	-109°	- 94°	- 84°	-17°	- 8°	- 2°	- 60°
1 A. M.	- 33	- 29	- 62	- 51	- 87	-132	-107	-102	- 80	- 1	2	7	- 56
2 „	- 32	- 28	- 55	- 51	- 91	-131	-108	- 95	- 84	3	6	13	- 54
3 „	- 28	- 28	- 54	- 50	- 84	-126	-106	- 98	- 82	2	13	17	- 52
4 „	- 18	- 28	- 49	- 50	- 89	-128	-107	- 96	- 82	11	24	21	- 49
5 „	- 13	- 25	- 47	- 47	- 86	-126	-107	- 94	- 87	9	26	29	- 47
6 „	- 2	- 23	- 51	- 37	- 84	- 128	-106	- 95	- 81	16	25	42	- 44
7 „	1	- 20	- 47	- 36	- 81	-123	-107	- 99	- 81	30	32	47	- 40
8 „	6	- 17	- 44	- 17	- 85	-131	-104	-101	- 73	37	40	54	- 36
9 „	10	- 6	- 43	- 4	- 91	-136	-104	-101	- 72	38	42	56	- 34
10 „	13	1	- 42	- 12	- 94	-128	-108	-102	- 77	34	39	56	- 34
11 „	16	- 2	- 38	- 28	- 92	-128	-105	- 94	- 73	36	37	53	- 35
Noon.	- 8	- 11	- 42	- 33	- 95	-122	- 97	- 97	- 78	7	20	47	- 42
1 P. M.	- 35	- 46	- 65	- 46	- 87	-111	-104	- 97	- 95	-11	2	19	- 56
2 „	- 52	- 55	- 62	- 43	- 85	-113	-101	- 96	- 97	-22	-11	- 2	- 62
3 „	- 53	- 55	- 65	- 44	- 83	-111	-104	- 98	- 94	-30	-28	-18	- 65
4 „	- 54	- 55	- 68	- 42	- 85	-112	-103	- 96	- 94	-28	-39	-24	- 67
5 „	- 51	- 50	- 66	- 43	- 84	-109	-102	- 97	- 93	-21	-33	-25	- 64
6 „	- 48	- 50	- 65	- 43	- 81	-109	-101	- 96	- 96	-20	-33	-23	- 64
7 „	- 42	- 49	- 63	- 43	- 81	-113	-106	- 96	- 91	-22	-32	-18	- 63
8 „	- 39	- 46	- 68	- 52	- 84	-117	-104	- 95	- 90	-19	-25	-15	- 63
9 „	- 36	- 39	- 69	- 52	- 84	-113	-105	- 97	- 93	-19	-21	- 8	- 61
10 „	- 37	- 37	- 66	- 52	- 89	-109	-108	-100	- 89	-10	-16	- 5	- 60
11 „	- 36	- 43	- 65	- 51	- 88	-118	-111	- 98	- 86	- 6	-16	- 4	- 61
Diurnal Range.	- 70	- 56	- 22	- 48	- 10	- 27	- 14	- 8	- 24	-68	-81	-81	-33

TABLE CIX.—*Mean Force of Wind, without regard to the direction in which it blew, in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
Midnight.	0·09	0·10	0·10	0·09	0·16	0·32	0·27	0·51	0·14	0·03	0·03	0·07	0·16
1 A.M.	·02	·05	·08	·12	·13	·29	·29	·35	·14	·05	·07	·04	·14
2 „	·03	·07	·06	·12	·16	·31	·35	·56	·15	·06	·04	·03	·16
3 „	·03	·08	·11	·12	·16	·43	·38	·60	·12	·06	·06	·05	·18
4 „	·05	·05	·09	·08	·17	·46	·34	·70	·12	·09	·08	·07	·19
5 „	·08	·03	·08	·08	·12	·28	·29	·61	·12	·10	·09	·06	·16
6 „	·09	·05	·05	·05	·10	·25	·25	·55	·08	·08	·12	·08	·15
7 „	·11	·04	·04	·06	·13	·23	·28	·59	·07	·12	·12	·08	·16
8 „	·11	·06	·06	·10	·12	·28	·29	·60	·06	·12	·12	·12	·17
9 „	·10	·08	·09	·10	·12	·20	·22	·49	·16	·10	·19	·14	·17
10 „	·10	·11	·07	·15	·16	·20	·20	·47	·20	·09	·17	·14	·17
11 „	·08	·08	·09	·20	·17	·25	·26	·47	·22	·09	·13	·12	·18
Noon.	·10	·18	·23	·30	·19	·24	·24	·45	·23	·11	·14	·14	·21
1 P.M.	·17	·24	·38	·35	·18	·31	·25	·42	·23	·14	·10	·16	·24
2 „	·30	·30	·42	·53	·17	·36	·25	·38	·24	·18	·16	·21	·22
3 „	·35	·33	·44	·51	·19	·30	·24	·40	·22	·24	·21	·25	·31
4 „	·28	·44	·39	·49	·19	·32	·26	·45	·24	·29	·25	·30	·33
5 „	·23	·36	·35	·45	·16	·25	·23	·50	·14	·23	·23	·25	·28
6 „	·23	·34	·35	·35	·14	·19	·20	·57	·16	·23	·28	·28	·28
7 „	·22	·53	·30	·39	·14	·31	·24	·62	·12	·25	·28	·31	·31
8 „	·16	·30	·28	·38	·12	·34	·24	·70	·07	·25	·24	·24	·28
9 „	·09	·10	·23	·25	·13	·31	·24	·48	·14	·09	·09	·15	·19
10 „	·03	·09	·16	·14	·16	·31	·23	·52	·12	·08	·04	·11	·17
11 „	·05	·08	·11	·15	·14	·29	·28	·54	·10	·06	·04	·10	·16
Diurnal Range.	·33	·50	·40	·18	·09	·27	·18	·35	·18	·22	·25	·28	·29

TABLE CX.—*Excess of the Mean Hourly Azimuth of Wind above the Monthly Mean.*

Bombay Civil Time.	MONTHS, 1857.												Mean Excess for each Hour.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	−11°	2°	−5°	−12°	−2°	−10°	−4°	2°	1°	−17°	−10°	−15°	−7°
1 A. M.	−8	3	−5	−11	0	−12	−2	−6	5	−1	0	−6	−4
2 „	−7	4	2	−11	−4	−11	−3	1	1	3	4	0	−2
3 „	−3	4	3	−10	3	−6	−1	−2	3	2	11	4	1
4 „	7	4	8	−10	−2	−8	−2	0	3	11	22	8	3
5 „	12	7	10	−7	1	−6	−2	2	2	9	24	16	5
6 „	23	9	6	3	3	−8	−1	1	4	16	23	29	9
7 „	26	12	10	4	6	−3	−2	−3	4	30	30	34	12
8 „	31	15	13	23	2	−11	1	−5	12	37	38	41	16
9 „	35	26	14	36	−4	−16	1	−5	13	38	40	43	18
10 „	38	33	15	28	−7	−8	−3	−6	8	34	37	43	18
11 „	41	30	19	12	−5	−8	0	0	12	36	35	40	18
Noon.	17	21	15	7	−8	−2	8	−1	7	7	18	34	10
1 P. M.	−10	−14	−8	−6	0	9	1	−1	−10	−11	0	6	−4
2 „	−27	−23	−5	−3	2	7	4	0	−12	−22	−13	−15	−9
3 „	−28	−23	−8	−4	4	9	1	−2	−9	−30	−30	−31	−13
4 „	−29	−23	−11	−2	2	8	2	0	−9	−28	−41	−37	−14
5 „	−26	−18	−9	−3	3	11	3	−1	−8	−21	−35	−38	−12
6 „	−23	−18	−8	−3	6	11	4	0	−11	−20	−35	−36	−11
7 „	−17	−17	−11	−3	6	7	−1	0	−6	−22	−34	−31	−10
8 „	−14	−14	−11	−12	3	3	1	1	−5	−19	−27	−28	−10
9 „	−11	−7	−12	−12	3	7	1	−1	−8	−19	−23	−21	−9
10 „	−12	−5	−9	−12	−2	11	0	−1	−4	−10	−18	−18	−7
11 „	−11	−11	−8	−11	−1	2	−6	−2	−1	−6	−18	−17	−7

TABLE CXI.—*Excess of the Mean Hourly Force of Wind above the Mean Monthly Value.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
Midnight.	−0·04	−0·07	−0·09	−0·14	0·01	0·03	0·00	0·00	−0·01	−0·10	−0·11	−0·08	−0·05
1 A. M.	−·11	−·12	−·11	−·11	−·02	·00	·02	−·16	−·01	−·08	−·07	−·11	−·07
2 „	−·10	−·10	−·13	−·11	·01	·02	·08	·05	−·00	−·07	−·10	−·12	−·05
3 „	−·10	−·09	−·08	−·11	·01	·14	·11	·19	−·03	−·07	−·08	−·10	−·02
4 „	−·08	−·12	−·10	−·15	·02	·17	·07	·19	−·03	−·04	−·06	−·08	−·02
5 „	−·05	−·14	−·11	−·15	−·03	−·01	·02	·10	−·03	−·03	−·05	−·09	−·05
6 „	−·04	−·12	−·14	−·18	−·05	−·04	−·02	·04	−·07	−·05	−·02	−·07	−·06
7 „	−·02	−·13	−·15	−·17	−·02	−·06	·01	·08	−·08	−·01	−·02	−·07	−·05
8 „	−·02	−·11	−·13	−·13	−·03	−·01	·02	·09	−·09	−·01	−·02	−·03	−·04
9 „	−·03	−·09	−·10	−·13	−·03	−·09	−·05	−·02	·01	−·03	·05	−·01	−·04
10 „	−·03	−·06	−·12	−·08	·01	−·09	−·07	−·04	·05	−·04	·03	−·01	−·04
11 „	−·05	−·09	−·10	−·03	·02	−·04	−·01	−·04	·07	−·04	−·01	−·03	−·03
Noon.	−·03	·01	·04	·07	·04	−·05	−·03	−·06	·08	−·02	·00	−·01	·00
1 P. M.	·04	·07	·19	·12	·03	·02	−·02	−·09	·08	·01	−·04	·01	·03
2 „	·17	·13	·23	·30	·02	·07	−·02	−·13	·09	·05	·02	·06	·08
3 „	·22	·16	·25	·28	·04	·01	−·03	−·11	·07	·11	·07	·10	·10
4 „	·15	·27	·20	·26	·04	·03	−·01	−·06	·09	·16	·11	·15	·12
5 „	·10	·19	·16	·22	·01	−·04	−·04	−·01	·01	·10	·09	·10	·07
6 „	·10	·17	·16	·12	−·01	−·10	−·07	·06	·01	·10	·14	·13	·07
7 „	·09	·36	·11	·16	−·01	·02	−·03	·11	−·03	·12	·14	·16	·10
8 „	·03	·13	·09	·15	−·03	·05	−·03	·19	−·08	·12	·10	·08	·07
9 „	−·04	−·07	·04	·02	−·02	·02	−·03	−·03	−·01	−·04	−·05	·00	−·02
10 „	−·10	−·08	−·03	−·09	−·01	·02	−·04	·01	−·03	−·05	−·10	−·04	−·04
11 „	−·08	−·09	−·08	−·08	−·01	·00	·01	·03	−·05	−·07	−·10	−·05	−·05

STATE OF THE WEATHER.

THE Island of Bombay is so situated that half of its horizon is bounded by land and the other half by the sea; from NW. to SE. horizon are the Malabar and other adjacent hills, and the Ghauts far inland; and from SE. to NW. is a perfect sea horizon.

The prevailing clouds at Bombay are the following:—

Mists and Fogs.—The former have a darkish appearance, while the latter have a whitish one.

Cirrus.—This cloud is the harbinger of the changes which take place in the state of the atmosphere at the beginning or ending of storms.

Cirro-stratus—is generally seen in the morning or evening above the horizon; this cloud generally prevails at the time of the meteorological disturbance.

Cirro-cumulus, Cumulus, and Cumulo-stratus—are all the summer clouds of India; both the latter are formed about the beginning and ending of any storm, and generally about the beginning and close of the SW. monsoon.

Nimbus—is the prevailing cloud of the rainy season; this cloud, according to circumstances, is formed from the combinations of any varieties of clouds.

The heights of the aforementioned clouds is estimated to be as follows:—

Miles.	
0	—Mists and Fog.
½	—Heavy nimbi, which float landward.
1 to 2	—Dense nimbi and thunder-clouds.
2 to 4	—Varieties of cirro-cumuli, which inosculate into nimbi.
5 to 7	—Lower cirri, which inosculate into nimbi or fleecy clouds.
8 to 11	—Varieties of higher cirri.

During the year 1857 the number of cloudless days in each month was as follows:—

January.....	2.	March	4.	November....	8.
February	16.	April.....	2.	December.....	22.

TABLE CXII.—*Mean Portion of Cloudy Sky (the whole Sky being=8) for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
1	7·9		0·0	2·5	4·9		7·3	8·0	6·6	2·0		
2	6·7	0·5		6·7	5·9	6·8	7·4		6·9	2·7	1·8	
3	6·5	3·5	0·0	2·8		6·0	7·5	8·0	7·9	3·4	6·2	
4		2·1	0·0	1·9	5·3	4·6	6·4	7·6	6·8		2·9	
5	6·1	0·0	0·0		6·2	3·7			7·1	4·0	4·1	
6	2·3	0·1	0·0	0·8	3·5	3·0	7·6	8·0		4·0	4·6	
7	0·3	0·4	0·0	0·1	5·9		7·8	8·0	7·7	3·6	2·5	0·3
8	0·4			1·1	3·3	5·2	7·9	8·0	7·9	2·5		
9	1·8	0·0	0·6	1·2	3·0	7·4	7·0		8·0	0·8	0·4	
10	0·1	0·0	0·5			6·5	6·4	8·0	8·0	4·5	0·1	
11		0·0		1·2	2·3	7·8	5·8	7·9	6·5			·05
12	6·6	0·0	0·0		2·5	6·3		7·5	6·8	2·1	0·9	1·5
13	4·1	0·0	1·1	2·5	1·9	7·0	7·1	6·5		3·3		
14	6·0	0·0	1·5	1·5	1·8		7·6	7·3	5·7	6·0		
15	5·6			2·2	1·8	6·8	7·2		4·5	4·1		
16	0·8	0·1	0·6	0·3	1·3	6·8	7·0		6·4	2·9	0·4	
17	0·2	0·0	0·5			6·5	7·5	7·9	8·0			
18		0·0	0·0	1·3	2·6	6·3	7·0	8·0	8·0		3·2	
19	0·5	0·0	0·0		1·8	7·0		8·0	8·0	5·2	2·7	
20	2·5	0·0	0·0	0·1	2·7	5·5	7·3	8·0		3·1		
21	3·1	1·3	0·7	2·6	2·4		6·8	8·0	7·7	3·7		
22	1·9			0·0	1·9	6·5	7·8	7·7	6·2	4·1		
23	0·0	0·0	0·0	0·0	1·6	8·0	6·0		4·4	4·1		
24	0·0	0·0	0·0	0·5		7·9	4·9	7·8	6·9	2·7		
25		0·1	0·1	0·8	7·6	8·0	7·1	7·9	4·5			
26	0·6	0·0	1·3		4·8	8·0		7·7	2·3	2·4		
27	0·0	0·0	0·2	0·9	6·6	6·5	7·2	7·1		4·9		
28	0·0	0·0	0·2	1·5	6·2		8·0	7·7	3·0	3·0		
29	1·5			2·9	4·2	7·0	7·8	7·5	3·9	0·5		
30	0·1		3·5	5·0	3·1	6·2	7·7	6·4	3·2	0·5		
31	0·0		1·2		2·8		8·0			5·2		
Mean.	2·5	0·3	0·5	1·6	3·6	6·3	7·2	7·7	6·2			

TABLE CXIII.—*Fall of Rain, as measured by Newman's Rain Gauge, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
					in.	in.	in.	in.	in.	in.		
1						0·03	0·17	5·27	0·31			
2						0·42	0·13	1·18	0·25			
3							0·06	0·21	0·07			
4							0·18	0·36	0·07	1·67		
5							0·11	0·61	0·45			
6							0·04	1·15	0·46			
7							0·19	0·13	0·04			
8						0·11	0·07	0·32	0·11			
9						0·09	0·03	0·10	0·17			
10								0·38	0·60	0·84		
11								0·83	0·19			
12						0·19		0·07	0·17			
13						0·10		0·17	0·79			
14						0·20		0·21	0·28	0·26		
15							0·06	1·66	0·04			
16						0·06		0·03	0·26			
17						0·61	0·02	1·43	1·34			
18						0·71		0·35	0·45			
19						0·43	0·23	0·23	3·01	0·06		
20						0·22	0·01	0·18	2·44			
21						0·38	0·15	0·43	0·76			
22						0·39	0·19	0·12	0·75			
23						1·46	0·18	0·02	0·32			
24						1·47	0·03	0·04	0·06			
25					0·02	1·41	0·70		0·05			
26						0·57	0·29	0·01				
27					0·55	0·15	1·29	0·04				
28						0·04	2·15	0·09				
29						0·17	0·66	0·04				
30						0·05	1·64		0·77			
							0·16	0·05				
					0·57	9·26	8·74	15·71	14·21	2·78		

Total fall of Rain during the year.....51·27 inches.

TABLE CXIV.—*Fall of Rain, as measured by Osler's Rain Gauge, for each Day of Bombay Civil Time.*

Date, 1857.	January.	February	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
					in.	in.	in.	in.	in.			
1							0·18	5·41	0·29			
2						0·44	0.13	1·18	0·29			
3							0.07	0·22	0·07			
4							0·18	0·40	0·06	1.62		
5							0·10	0·61	0·45			
6							0·03	1·16	0·45			
7							0·18	0·16	0·04			
8						0·12	0·06	0·29	0·08			
9							0·03	0·09	0·17			
10								0·35	0·62	0·82		
11						0·09		0·87	0·23			
12						0·18		0·06	0·16			
13						0·10		0·19	0·67			
14						0·18		0·24	0·29	0·28		
15							0·08	1·59	0·04			
16						0·06		0·01	0·26			
17						0·58	0·03	1·44	1·31			
18						0·67		0·34	3·05			
19						0·42	0·25	0·23	2·44	0·06		
20						0·27	0·02	0·19	0·88			
21						0·30	0·17	0·47	0·71			
22						0·39	0·21	0·14	0·33			
23						1·47	0·19		0·06			
24						1·48	0·02	0·05	0·05			
25					0·02	1·40	0·79					
26						0·62	0·30	0·01				
27					0·58	0·18	1·19	0·06				
28							2·16	0·07				
29						0·21	0·63	0·04				
30						0·04	1·58		0·78			
31							0·16	0·04				
					0·60	9·20	8·74	15·91	14·31			

Total fall of Rain during the year..... 51·54

TABLE CXV.—*Mean Portion of Cloudy Sky (the whole Sky being =8) in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Mean of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Midnight.	2·1	0·2	0·9	1·8	4·0	6·9	6·6	7·3	6·6	2·9	1·8	0·0	3·4
1 A. M.	2·8	0·3	0·8	2·2	4·0	6·2	7·0	7·5	6·0	2·5	0·8	0·0	3·3
2 „	2·6	0·3	1·0	1·9	4·0	6·2	7·2	7·4	6·1	2·4	0·7	0·0	3·3
3 „	2·6	0·2	0·6	1·6	3·5	6·3	7·4	7·5	6·1	2·3	0·9	0·0	3·3
4 „	2·3	0·4	0·5	2·0	3·5	6·0	7·0	7·5	6·0	2·1	1·1	0·0	3·2
5 „	2·6	0·5	0·7	1·6	4·2	6·2	7·3	7·8	6·1	3·2	1·0	0·0	3·4
6 „	2·8	0·4	0·7	2·2	4·5	6·5	7·6	7·8	6·3	4·3	1·2	0·1	3·7
7 „	2·8	0·4	0·8	2·0	4·4	6·7	7·6	7·9	6·3	4·7	1·7	0·2	3·8
8 „	2·4	0·5	0·6	1·8	4·3	6·5	7·4	7·9	6·0	4·1	1·7	0·2	3·6
9 „	2·6	0·5	0·4	1·8	4·3	7·1	7·4	7·8	6·5	3·8	1·3	0·3	3·6
10 „	2·3	0·3	0·2	1·4	3·8	7·0	7·4	7·8	6·2	3·6	1·3	0·3	3·5
11 „	2·5	0·3	0·2	1·5	3·5	7·0	7·4	7·6	6·5	3·4	1·3	0·2	3·5
Noon.	2·4	0·4	0·3	1·3	3·4	6·6	7·3	7·8	6·2	3·1	1·2	0·2	3·3
1 P. M.	2·6	0·4	0·1	1·5	3·3	6·8	7·3	7·6	5·9	3·4	1·2	0·2	3·3
2 „	2·8	0·3	0·1	1·7	3·3	6·2	7·5	7·7	6·1	3·4	1·3	0·2	3·4
3 „	2·8	0·3	0·1	1·5	3·0	5·9	7·7	7·8	6·1	3·1	1·4	0·2	3·3
4 „	3·1	0·3	0·2	1·6	3·5	6·3	7·6	7·9	6·0	3·5	1·4	0·0	3·4
5 „	2·9	0·3	0·1	1·6	3·5	6·7	7·4	7·8	6·6	4·4	1·4	0·1	3·6
6 „	2·8	0·2	0·6	1·5	3·8	6·5	7·4	7·9	6·8	3·9	1·7	0·1	3·6
7 „	2·1	0·3	0·5	1·3	4·2	6·4	7·3	7·6	6·6	2·8	1·1	0·0	3·3
8 „	2·1	0·4	0·6	1·2	4·2	6·0	6·1	7·4	6·2	3·2	0·9	0·0	3·2
9 „	2·1	0·4	0·6	1·0	3·4	6·5	6·4	7·8	6·3	3·0	1·2	0·0	3·2
10 „	1·8	0·3	0·5	1·0	3·8	6·2	6·1	7·6	6·7	2·8	1·3	0·0	3·2
11 „	1·9	0·3	0·7	1·6	3·4	6·1	6·4	7·3	6·5	3·1	1·0	0·1	3·2
Diurnal Range.	1·3	0·3	0·9	1·2	1·2	1·3	1·6	0·6	0·8	2·6	1·1	0·3	1·1

TABLE CXVI.—*Fall of Rain, by Newman's Rain Gauge, in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Sum of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
					in.	in.	in.	in.	in.	in.			
Midnight.						0·74	0·42	0·78	0·59				2·53
1 A. M.						0·10	0·27	0·68	0·86	0·52			2·43
2 „						0·29	0·25	0·66	1·22	0·32			2·74
3 „						0·99	0·16	1·47	1·31				3·93
4 „						0·58	0·12	0·98	0·24				1·92
5 „					0·04	0·33	0·29	0·72	0·36				1·74
6 „						0·28	0·21	0·44	0·25	0·10			1·28
7 „					0·02	0·45	0·58	0·31	0·44	0·04			1·84
8 „						0·15	0·92	0·35	0·74	0·03			2·19
9 „						0·22	0·49	0·43	0·92	0·22			2·28
10 „						0·49	0·43	0·69	0·69	0·27			2·57
11 „						0·23	0·15	0·68	0·65	0·21			1·92
Noon.						0·06	0·25	0·42	0·57	0·23			1·53
1 P. M.						0·18	0·42	0·65	1·69	0·15			3·09
2 „						0·50	0·21	1·84	1·06	0·18			3·79
3 „						0·60	0·65	0·66	0·16	0·18			2·25
4 „						0·37	0·85	0·93	0·03	0·01			2·19
5 „						0·25	0·59	0·84	0·10				1·78
6 „						0·18	0·24	0·40	0·38				1·20
7 „						0·19	0·45	0·07	0·43				1·14
8 „					0·40	0·12	0·40	0·23	0·13	0·24			1·52
9 „					0·11	0·36	0·33	0·53	0·51	0·05			1·89
10 „						0·85	0·03	0·50	0·26	0·03			1·67
11 „						0·75	0·03	0·45	0·62				1·85

TABLE CXVII.—*Fall of Rain, by Osler's Rain Gauge, in each Month, for each Hour of Bombay Civil Time.*

Bombay Civil Time.	MONTHS, 1857.												Sum of the whole.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
					in.	in.	in.	in.	in.	in.			
Midnight.						0·74	0·43	0·76	0·52				2·45
1 A. M.						0·10	0·23	0·66	0·95	0·50			2·44
2 „						0·29	0·22	1·02	1·18	0·32			3·03
3 „						0·92	0·17	1·04	1·26				3·39
4 „						0·52	0·20	0·98	0·23				1·93
5 „					0·03	0·34	0·22	0·75	0·49				1·83
6 „					0·01	0·25	0·22	0·55	0·26	0·10			1·39
7 „					0·02	0·53	0·58	0·34	0·43	0·04			1·94
8 „						0·15	0·85	0·33	0·67	0·03			2·03
9 „						0·21	0·52	0·51	1·03	0·22			2·49
10 „						0·51	0·48	0·73	0·59	0·27			2·58
11 „						0·24	0·20	0·51	0·57	0·21			1·73
Noon.						0·07	0·29	0·59	0·39	0·23			1·57
1 P. M.						0·13	0·42	0·59	1·63	0·15			2·92
2 „						0·51	0·19	1·77	1·04	0·18			3·69
3 „						0·62	0·65	0·71	0·12	0·18			2·28
4 „						0·40	0·83	0·97	0·03	0·01			2·24
5 „						0·28	0·54	0·82	0·08				1·72
6 „						0·16	0·24	0·41	0·28				10·9
7 „						0·22	0·46	0·08	0·55				1·31
8 „					0·39	0·11	0·38	0·21	0·13	0·25			1·47
9 „					0·15	0·28	0·37	0·59	0·45	0·06			1·90
10 „						0·81	0·03	0·51	0·27	0·03			1·65
11 „						0·83	0·02	0·48	0·66				1·99

SYNOPSIS OF THE WEATHER DURING THE YEAR 1857.

JANUARY, 1857.

FROM the beginning to the 6th instant the sky was clouded by nimbi, cirro-cumuli and cirri, but cirri most prevailed: from the 7th to the 11th instant there were but very few clouds seen in the sky; from 12th to 22nd the sky was partially clouded with cirri and fleecy clouds; after the 22nd the sky began to clear away, although a few denser clouds were observed about the close of the month. There was only one instance of lightning during this month, which occurred on the 25th.

FEBRUARY, 1857.

From the 2nd to the 9th instant the sky was partially clouded with cirro-cumuli, cirri, and a few masses of nimbi occasionally, but after the 8th instant it almost cleared away. There were about 16 cloudless days during this month; on the night of the 3rd wind blew with moderate force, accompanied with passing showers and lightning.

MARCH, 1857.

From the beginning to the 12th instant the sky remained almost cloudless, with the exception of a few cirri and fleecy clouds occasionally observed; after the 12th denser clouds were observed floating in small masses landward. Between 17th and 21st it was almost cloudless; a few patches of clouds were observed on the 21st instant; the sky remained quite clear for the three following days; denser clouds were seen after the 26th floating landward, on the 29th and 30th the weather was stormy, wind abnormal, light rain, lightning and thunder.

Lightning ..... 28th, 29th, 30th.
Thunder ..... 29th, 30th.

APRIL, 1857.

The sky was clouded with dense clouds for the first five days; afterwards, cirri, cirro-cumuli, and fleecy clouds were now and then seen on the horizon or scattered about the sky; there were only two cloudless days during this month.

Lightning ..... 26th and 29th.

MAY, 1857.

The amount of clouds was greater in this month than in the last. Dense cirro-cumuli and nimbi were often observed moving landward; ranges of cumuli were seen along the eastern horizon, through which lightning often proceeded after the 21st instant. There were only three instances in which thunder was noticed; light rain fell during this month.

Lightning	4th,	5th,	21st,	22nd,	23rd,	25th, 26th, 27th.
Thunder.....	5th,				25th,	27th.
Strong wind						27th.
Rain					25th,	27th.

JUNE, 1857.

The weather was gusty during the first half of the month; cumuli were observed along the Eastern horizon, accompanied with lightning and thunder. The sky was densely clouded with nimbi and other dense clouds, and light rain occasionally fell. In the latter half of the month, lightning was but once noticed, the sky remained densely clouded with nimbi; but the fall of rain was much smaller than the average for that period; wind blew moderately in latter half of the month.

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along the eastern horizon, accompanied with lightning. Four thunder-storms occurred during the above period. After the 21st instant, the denser clouds gave way to Cirri, which were seen scattered about the sky throughout the remainder of this month. The stormy weather appears to have commenced about the beginning of this month, and ended about the 21st instant.

Lightning ..	5th,	6th,	7th,	8th,	9th,	10th,	14th,	15th,	16th,	19th, 20th, 21st.
Thunder....				8th,		10th,	14th,			19th.
Rain	4th,					10th,	14th,			19th.

NOVEMBER, 1857.

The sky was clouded for the first eight days of this month with Cirri and Cirro-Cumuli, and ranges of Cumuli were seen along E. horizon, through which lightning proceeded. The sky remained almost cloudless between the 9th and 21st, although a few patches of Cirri were at times discernible about the horizon. After the 21st instant, the sky became nearly cloudless, and our tropical winter regularly set in.

Lightning..... 5th, 7th, 8th.

DECEMBER, 1857.

Between 7th and 14th the sky was clouded with cirri, but the remaining days of this month were entirely cloudless.

TABLE CXVIII.—*Showing the Number of Days on which were observed the Occurrences of such Phenomena as come under the head "Weather." Sundays were omitted in these calculations.*

Months, 1857.	Number of Cloudy Days.	Number of Rainy Days.	Lightning and Thunder together. Number of Days.	Thunder only. Number of Days.	Lightning only. Number of Days.	Windy Days.
January	22				1	7
February	8				1	9
March	13		2		3	8
April	22				2	7
May	27	2	3		5	3
June	25	21	8	1	4	13
July	27	24			3	16
August	24	29			2	24
September	26	26			1	3
October	26	4	4		8	3
November	12				3	1
December	4					1
Sums	236	106	17	1	33	95
Excess in 1857 above the average.	− 26	+ 4	+ 2	0	+ 2	− 5

It is to be understood that those days are only used on which the force of wind was above one pound, the extent of the clouds above $\frac{1}{80}$ of the whole sky, and the fall of rain above $\frac{1}{100}$ of an inch.

METEOROLOGICAL DISTURBANCES IN 1857.

UNDER this head are included all the storms, whether of wind, lightning, or thunder, extraordinary clouded state of the sky, great falls of Barometer, or anything unusual in the state of the atmosphere.

Storms coming from different directions are attended with different phenomena; these are exhibited as follows:—

1st.—When they come from the NW. the Barometer generally rises, with clear sky.

2nd.—When they come from the NE. the Barometer rises, but the sky remains densely clouded with nimbi and other dense clouds, rising from N. or NE. Lightning, thunder, and smart showers of rain generally in the evening. These gales generally occur at the close of the SW. monsoon, and are called Elephantas.

3rd.—When they come from the SE. the Barometer falls; the sky becomes clouded with nimbi, rising from SE. or S. They come in the afternoon, accompanied with lightning, thunder, and rain, and cease after sunset.

4th.—When they come from SW., the clouds generally appear in double strata, the latter moving generally landward, with heavy rain, but seldom lightning or thunder. These gales often last for four or five days, and occur about the middle of SW. monsoon.

The following are the Meteorological Disturbances which occurred during the year 1857.

JANUARY.—Standard Barometer was gradually falling from the 3rd instant: it was as low as 29·7 on the 10th, being about 0·23 lower than the normal mean. It then rose a little between 20th and 22nd, and afterwards settled itself. The temperature was a little high between 20th and 22nd; but during the remainder of the month it was at its usual state. The pressure of moisture was rather low on the 6th, 15th, 21st, and between 28th and 31st. The wind blew quite abnormally between 8th and 14th, when patches of dense clouds were seen in the sky. Lightning was seen in NW. horizon only on the 25th instant.

FEBRUARY 3RD.—Standard Barometer was 29·78, being little lower than the normal mean; it was unsettled in its movements for a few following days. The temperature of air was a little higher than usual for that week. Pressure of moisture was unusual, changing abruptly now and then from its normal state. On the 3rd instant clouds began to gather in the afternoon, and had densely clouded the sky by sun-down. The wind blew abnormally; it shifted from WSW. to NNW. at 7h. 35m. P. M., and blew with a force of 1·5 lb; it then veered back from NNW. to W. and then to SW. Light rain fell at this time, and lightning was observed in NE. horizon. This gale is supposed to have come from E. and passed towards NE.; it lasted for about 20 minutes.

MARCH.—Standard Barometer was rising between 7th and 14th; it was gradually falling between 14th and 23rd; was again rising between 23rd and 27th. It began to fall from the 27th, and was

as low as 29·65 on the 29th instant, but afterwards it commenced to rise. The pressure of moisture was unusual, taking large sweeps in the daily changes. There were three days during this month which were considered as abnormal.

MARCH 18TH.—The temperature of air was as high as 102°0, being about 7° higher than the normal mean; it took about three days to regain its normal state. Between 17th and 20th the sky was almost cloudless, although a few patches of clouds were seen around the horizon. The direction of wind was abnormal, but no perceptible change in its force.

MARCH 29TH.—Barometer low; temperature of air and pressure of moisture slightly increased; the sky densely clouded; lightning and thunder in the morning and after sunset; wind southerly, blowing in fresh breezes.

MARCH 30TH.—Barometer, temperature, and pressure of moisture were the same as on the preceding day; the sky clouded with different sorts of clouds, but nimbi most prevailed; no perceptible change was observed in the direction or force of wind; lightning, thunder, and passing showers of rain.

The disturbed state of the atmosphere on the 29th and 30th seems to be the effect of a storm supposed to have taken place at some distance from Bombay.

APRIL 26TH.—Barometer was slightly irregular in the first half of this month, but fell gradually in the latter half. The maximum temperature of air as high as 89°0. The pressure of moisture was low about the beginning and middle of the month, but high about its close; a few clouds were seen about the horizon on the 26th instant, and lightning in E. horizon at 7 P. M.

MAY.—Barometer attained its minimum fall on the 1st instant; it was rising from 2nd to 7th, and then began again to fall, and was as low as 29·5 on the 27th, being about 0·20 lower than the normal mean. After the 27th instant barometer commenced to rise gradually. The temperature of air was moderate throughout this month, but the atmosphere was rather dry between 9th and 20th. The pressure of moisture was regular in its diurnal changes. Four days were considered as abnormal in this month.

MAY 2ND.—Electrical clouds were seen in horizon; the sky clouded with nimbi and other clouds; wind southerly, blowing about two pounds force. This spurt lasted for about four hours, and passed towards SE.

MAY 5TH.—Electrical clouds were seen in the horizon from 3rd instant, accompanied with vivid flashes of lightning. On the 5th, at about 2 A. M., peals of thunder were heard in E. and lightning observed along E. horizon. The wind was southerly, but its force was light. It rained a little at 5h. 28m. A. M. This partial storm is supposed to have come from SE., and passed round by E. towards NW.

MAY 25TH.—The sky was densely clouded with nimbi, moving E. or SE. from the previous day; lightning observed at night at 8h. 51m. on the 25th, and distant thunder heard in W. The wind was blowing abnormally, but with light force.

MAY 27TH.—Two thunder-storms passed over head, one in the morning and another after sunset. The sky was clouded with nimbi and other clouds, moving generally E. At about 3 A. M. the wind began to blow abnormally; it veered round from S. to E., and then to NNE. by retrograde motion. At 4h. 30m. it settled in NNE., and was afterwards blowing in that direction for about half an hour; it afterwards veered back, by direct circular motion, to its usual position. The force of wind was light. This thunder-storm seems to have come from NE., and passed towards S. round by E. Another storm came

from SE. after sunset. Peals of thunder were heard and lightning seen in E. horizon at 7h. P. M. The wind suddenly shifted from WSW. to NE. at 7h. 10m., and began to blow with about 4 pounds force; at 7h. 39m. the maximum force was about 6 pounds, but afterwards the wind gradually died away. It was raining heavily at 7h. 40m., but at 7h. 50m. both rain and wind had entirely passed off. This storm is believed to have come from NE. and passed towards S. round by E.; it lulled as it went over this place for about 40m.

JUNE.—Standard Barometer movements were nearly regular for the first ten days of this month, but afterwards slight irregularity was perceived in its diurnal curves; between 11th and 13th it was falling, but between 13th and 16th rising; between 16th and 18th falling, but on the 19th a little on the rise; between 19th and 23rd falling, but afterwards slowly rising. The temperature of air was hot and dry in the first half, but comparatively moist in the latter half of this month. The pressure of moisture as usual for this month. Several days during this month were considered to be abnormal.

JUNE 1ST AND 2ND.—Barometer was a little low; temperature moderate; the sky densely clouded with nimbi; lightning, thunder, and rain in the afternoon. The wind Westerly on the 1st instant, but variable on the 2nd instant: the force of wind light, supposed to be the effect of a distant storm.

JUNE 11TH, 12TH, AND 13TH.—Barometer low; temperature moderate; atmosphere comparatively humid; the sky densely clouded; electrical clouds in horizon, accompanied with lightning and thunder in the afternoon; wind abnormal, with slight rain; the wind's force was however two pounds between 2h. and 3h. of the 13th instant. The storm of the 13th is supposed to have come from N. and passed towards W. by retrograde motion.

JUNE 14TH, 15TH, AND 16TH.—Barometer a little rising; temperature of air moderate; the pressure of moisture high; the sky densely clouded; lightning in horizon, after sunset; thunder at 10h. P. M. on the 15th instant; wind abnormal, and rain light; the force of wind generally light, though it was as high as four pounds between 3h. and 4h. A. M. on the 15th instant. The storm of the 15th is supposed to have come from W. and passed towards N.; but the storm of the 16th is believed to have commenced in E. and passed round by N. towards W.

JUNE 17TH, 18TH, AND 19TH.—Barometer low; temperature moderate; atmosphere loaded with moisture; the sky densely clouded; lightning and rain; but thunder only once noticed: on the 17th instant, wind southerly, blowing in smart gusts. These gales generally blew in the afternoon.

JUNE 20TH TO 23RD.—Barometer low; temperature moderate; the sky densely clouded; light rain; wind southerly but variable on the 23rd instant; the force of wind light, though it blew occasionally in smart gusts; thunder and lightning only noticed once, on the 23rd instant.

The monsoon is supposed to have fully commenced after the 25th instant, as its force afterwards was generally above one pound.

JULY.—Temperature of air between 80°0 and 90°0 till the 25th instant, after which the rain regularly set in. The direction of wind was between W. and SW.; an increase in the force of wind was accompanied with a simultaneous fall in the diurnal curve of Standard Barometer. There were three instances of lightning during this month, viz. on the 1st, 18th, and 21st instant.

AUGUST.—The wind was rather squally between 4th and 21st, and the Standard Barometer stood between 29·6 and 29·7 in., but fell as low as 29·5 about the 10th instant.

SEPTEMBER.—Two slight magnetic disturbances occurred during this month, but no change was observed in the state of weather at the time of their occurrence.

OCTOBER.—Elephanta storms occurred about the middle of this month. The mean height of barometer for the first ten days was about 29·9, but afterwards its movements were slightly affected by the changes in the atmosphere; the range of temperature of air was between 75° and 86°, and the sky more or less clouded with lighter clouds. During the month of October four days were considered as disturbance days.

OCTOBER 10TH.—Standard Barometer was low on the 8th instant, but was a little higher on the 10th than the two preceding days; maximum temperature of air about 87°; pressure of moisture and direction of wind unusual; the wind was blowing with about 2 lbs. force on the 10th at 1h. 30m. A. M., accompanied with smart showers of rain; lightning and thunder in NW.

OCTOBER 16TH.—Barometer was lower than the normal mean; maximum temperature of air 89°0, the wind being abnormal, blowing with about 1 lb. force at 7 h. 50m. P. M. At sunset ranges of cumuli were discernible about horizon, which scattered throughout the sky at about 8 P. M.; lightning continually flashing in E. and NE., but no thunder was heard.

OCTOBER 19TH AND 21ST.—Standard Barometer height not affected; maximum temperature of air about 85°; pressure of moisture unusual; no change in the direction or force of wind; lightning, thunder, and rain were noticed after sunset. The storm of the 19th instant seems to have come from E. and passed round by S. towards W.

NOVEMBER 6TH.—Barometer falling from 4th instant; maximum temperature of air about 85°0; pressure of moisture high; the direction of wind abnormal; lightning proceeded from cumuli in the E. on the 7th and 8th.

Barometer was very low on the 26th instant, but not attended with any other remarkable change.

DECEMBER 16TH AND 27TH.—Barometer lower than the normal mean; maximum temperature about 80°0, but comparatively dry, with a cloudless sky; magnetic disturbances occurred on three days during this month.

SUMMARY OF THE METEOROLOGICAL RESULTS.

BAROMETER.

It appears, from the mean daily values of Barometer for the last twelve years, that the normal height, though fluctuating, has generally a gradual fall from January to July, and a gradual rise from July to January. Barometer attains its highest readings when the sun enters perigee, or when the temperature of air is actually at its minimum; and comes to its lowest readings when the sun enters apogee, or when the temperature of air is greatest. It is therefore apparent that the mean changes in barometer are influenced by solar heat acting on the temperature of air.

The mean daily height of barometer never exceeds 30·10, and never falls below 29·50 inches.

The difference between the mean daily heights of barometer, on two consecutive days, never exceeds 0·20 inch; the difference being generally less than 0·06 inch.

The daily fluctuations of barometer in simple hourly observations range between 0·05 and 0·20 of an inch. The daily ranges are larger in Winter than in Summer. There were many instances in which the range of barometer was greater than 0·10 inch.

The maximum rise generally occurs one or two hours before noon and midnight, and the minimum fall happens at about one or two hours before sunrise and sunset. The actual height of barometer is found to be larger at its morning maximum than at its evening maximum; and the height generally lower in the evening minimum than in the morning minimum. The time of evening maximum remains pretty nearly constant.

The amount of fall in height of barometer is large at midnight, 1, 11 A. M., noon, 1, 2, 11 P. M.; it is moderate at 2, 3 A. M. and 3, 4 P. M.; the amount of rise is large at 5, 6 A. M. and 5, 6, 7 P. M.; is moderate at 7 A. M. and 8 P. M.; and very small at 9 P. M. and 9 A. M. The greatest amount of fall or rise in height for one hour was, with a few exceptions, between 0·030 and 0·040 inch.

If the mean height of barometer is to be determined from two observations taken daily, the hours best suited for this purpose will be 5 A. M. and 10 P. M., or 8 A. M. and 4 P. M., or from 6 A. M. only. The mean value found from any of these combinations will be correct within + 0·02 inch.

The atmospheric pressure departs most from the true mean about the month of July, and nearly coincides with the annual mean about the month of February. The pressure of air is least affected at sunrise or sunset, and most affected at about 1 P. M.

TEMPERATURE.

The mean daily temperature of air increases (though irregularly) from the middle of January to the end of May, or about the beginning of June; it is depressed a little in June, but in the next four months (July to October) remains nearly equal to the mean annual temperature; after the month of

October the temperature gradually decreases to the end of December. A curve projected from all the observations of temperature which are not affected by the clouds will show at a glance that the temperature of air is depressed a little in the rainy season. A certain allowance is to be made therefore for the effects of clouds, in order to get an exact value of the temperature of air in the rainy season. The following numbers are to be used in correcting the temperature of air in rainy season:—

1st June	+ 2°2	1st July	+ 3°2	1st Aug.	+ 5°4	1st Sept.	+ 4°7	1st Oct.	+ 3°2
8th „	+ 2·3	8th „	+ 3·7	8th „	+ 5·3	8th „	+ 4·4	8th „	+ 2·6
16th „	+ 2·4	16th „	+ 4·2	16th „	+ 5·2	16th „	+ 4·2	16th „	+ 1·9
23rd „	+ 2·8	23rd „	+ 4·8	23rd „	+ 5·0	23rd „	+ 3·7	23rd „	+ 0·0

The mean daily temperature of air fluctuates throughout the year, ranges between 90° and 68°, and never exceeds these limits.

The differences between the mean daily values of any two consecutive days never exceed 5°, and in many cases are found to be less than 2° but greater than 1°.

The air in the Observatory and in contact with the ground is affected by the clouds, and the same factors given for the free air correction will, with a slight alteration, answer for these temperatures.

Daily ranges in the temperature of ground below 20 inches of its surface are indiscernible; but a regular rise and fall of temperature is observed from one season to the other. Periodical change in the temperature of ground varies according to the depth of ground. The periodical change of temperature at six inches below the surface of ground is 15°0, but at the depth of 144 inches it is reduced to only 2°0.

Daily range of the temperature of free and external air seldom exceeds 20°0, and generally keeps below 10° and 15°.

The maximum temperature of free air occurs at about 3 P. M., and the minimum temperature at about sunrise in Winter; but in Summer the times of their occurrence are found to be 2 P. M. and 5 P. M.

The fall of temperature from midnight to 6 A. M. is small but regular; after sunrise temperature rises rapidly till 11 A. M., from noon to 2 or 3 P. M. the rise is moderate; between 2 and 5 P. M. a moderate fall, but at about sunset a large fall is experienced; after sunset a gradual fall is observed throughout the year.

If the mean temperature of free air is to be ascertained by two observations taken daily, the times best suited for this will be 4 A. M. and 4 P. M., or 9 A. M. and 9 P. M.; if the observation at 8 A. M. be unaffected by the action of clouds, it will answer near enough to the true mean. The combination of 4 A. M. and 4 P. M. will answer well for temperature of air and ground under different situations.

It appears from the diurnal inequality tables, that the temperature of free air is more uniform during the night than in the day.

TEMPERATURE OF WET BULB.

The temperature of evaporation increases (though irregularly) from the month of January to July; and falls from July to December. About the middle of June the sun attains its extreme southerly declination, and the rain which falls down in torrents keeps the atmosphere saturated with humidity. In June and July the temperature of evaporation nearly coincides with the mean annual temperature of air. The presence of clouds in the sky has the effect of increasing the temperature of evaporation.

The fluctuations of mean daily values of evaporation from the normal mean temperature in no case exceed 6°, and always range between 60° and 82°.

The difference between the mean daily temperature of evaporation of two consecutive days never exceeds 6°. The difference generally ranges between 1° and 2°.

The daily range of temperature of evaporation never exceeds 15°, and seldom goes below 2°. In many instances it has ranged between 3° and 8°. The ranges in winter were higher than in summer.

A perceptible rise after sunrise and a fall of temperature at about sunset were observed in the hourly changes of evaporation. An abrupt rise after noon was frequently noticed in the temperature of evaporation in winter. The times of maximum and minimum temperature of evaporation were irregular and variable.

If the mean daily temperature of evaporation is to be ascertained from two observations taken daily, the hours supposed to be best are 5 A. M. and 2 P. M., 9 A. M. and 9 P. M. If more than single combinations be used, the deduced mean will be more correct.

It appears from the Inequality Tables that the mean temperature differs most from the true mean in the morning and evening, and nearly coincides with it at about noon and midnight. During dry weather the movements of wet bulb thermometer are most irregular.

HYGROMETRIC ELEMENTS.

Dew Point.—Temperature of dew point was high about the month of June, and low about the month of January; mean temperature was higher in summer than in winter by about 8°; the diurnal range was higher in winter than in summer by about 3°; mean temperature of the day was a little higher than the mean temperature of night. The times of maximum and minimum temperature were not constant, but generally the maximum temperature occurred between 3 and 5h. P. M., and the minimum before sunrise. Temperature of dew point was most irregular in December, January, and February; and was most regular in July and August.

Pressure of Moisture.—Mean pressure was higher in summer than in winter by about 0·200; mean pressure was higher during the day than at night by 0·009; diurnal range was larger in winter than in summer by about 0·050.

Humidity of Air.—Atmospheric air was almost saturated with humidity in August, but very little affected with moisture in December, although the air was cold as well as dry. Mean humidity of air was higher in Summer than in Winter by about 0·09; the daily ranges of humidity were larger in Winter than in Summer by about 0·10; the atmosphere was most dry between noon and 2 P. M., and most moist before sunrise. Dew falls generally from midnight to 6 A. M., when the humidity of air is observed to be higher than at any other time of the day.

Pressure of Atmospheric Dry Air.—This pressure was greatest in December and least about the middle of July; mean pressure of air was greater in Winter than in Summer by about 0·370 in.; mean diurnal range was greater in Winter than in Summer by about 0·080 in.; mean pressure during the day was a little higher than the pressure during the night. Two maxima and two minima were observed in the diurnal fluctuation of dry air daily, and the times of their occurrence were nearly the same as those of the Standard Barometer. The pressure in March and October nearly corresponds with the mean annual pressure of dry air.

WEIGHT OF A CUBIC FOOT OF AIR IN GRAINS.—In the space of a cubic foot at the surface of the earth there are more particles of air in Winter than in Summer, as air is more rarefied in summer than in Winter, and for the same reason the atmosphere is denser at night than during the day time. The greatest difference in the weight of a cubic foot of air during the day and night was about 20 grains.

WEIGHT IN GRAINS OF MOISTURE IN A CUBIC FOOT OF AIR.—There was more humidity in the atmospheric air in Summer than in Winter; the difference in weight of moisture in a cubic foot of air during the day and night is generally less than 2 grains. There is more humidity in air at night than during the day time.

WEIGHT IN GRAINS OF VAPOUR REQUIRED FOR COMPLETE SATURATION.—The air seems to be more dry in Winter than in Summer; the air absorbs more evaporation during the day hours than during the night.

EVAPORATION.—March, April, May, and December are the months in which the quantity of water evaporated was most, and in August the evaporated water was least. The whole quantity of water evaporated in the atmosphere during the year 1857 was nearly 78 inches. The difference between fall of rain during this year and total quantity of water evaporated was about 21 inches.

WIND.

There were about 58 days on which the direction of wind was abnormal. The wind made about 24 turns round the compass during the year 1857; there were about 95 days out of 310 on which the force of wind was greater than one pound; smart gusts of wind blew in August, the force of which was seldom below one pound; S.W. wind blew in Summer or S.W. monsoon months, and land and sea breezes in Winter. The mean direction of wind was most westerly in November and December. S.W. and N.W. are the points on which the recorded force of wind is generally more than from any other direction; the duration of the N.W. and W. wind is generally greater than any other winds.

WEATHER.

There were more clouds in Summer than in Winter, cirri prevailed in fine weather; cirro-cumuli, cumuli, and cumulo-strati were seen about the beginning or ending of any changes in the atmosphere; nimbi were seen in the rainy season, or during the prevalence of any disturbance during the year 1857. The fall of rain was greatest in August and September, and least in May and October. No rain in January, February, March, April, November, and December. Lightning was registered in all months except in December. Thunder was recorded in March, May, June, and October. Lightning was often noticed without thunder.

DISTURBANCES.

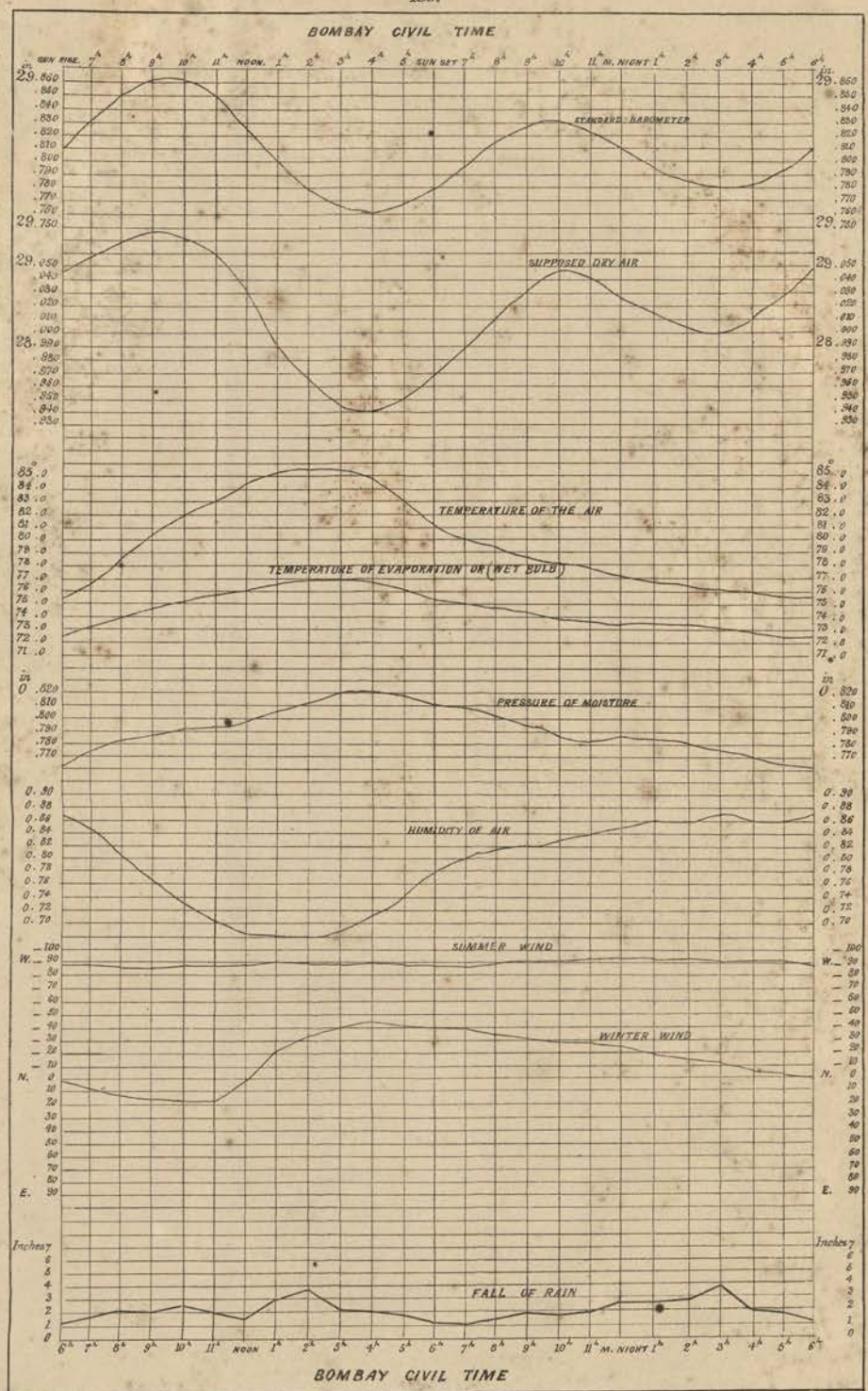
June and October are the months in which the weather is found generally disturbed. In the year 1857 the atmosphere was disturbed by slight meteorological disturbances, but during those of May, June, and October it was more obviously so.

TABLE CXIX.—*Showing the Changes of all the Meteorological Elements during the Year* 1857, *reduced from the Separate Results of each Element in this Year.*

Names of Elements.	Diurnal Ranges.			Periodical Changes.			Differences between Day & Night.		
	Winter.	Summer.	Mean Range.	Mean Value in Summer.	Mean Value in Winter.	Annual Mean.	Mean for Day.	Mean for Night.	Difference.
Standard Barometer No. 58	0·088	0·122	0·105	29·718	29·898	29·808	29·814	29·802	0·012
Temperature of Free Air	7·6	12·8	10·2	82·8	77·7	79·9	82·0	77·8	4·2
Temperature of Air within the Observatory.....	3·6	6·6	5·1	84·0	80·5	82·2	83·0	81·4	1·6
Temperature of Air in contact with Ground	6·9	11·1	9·0	82·5	77·7	80·1	81·9	78·3	3·6
Temperature of Ground 6 inches below its surface.....	1·5	2·7	2·1	82·5	77·9	80·2	80·3	80·1	0·2
Temperature of Ground 20 inches below its surface.....	..	..	..	82·7	79·0	80·9	80·9	80·9	0·0
Temperature of Ground 60 inches below its surface.....	..	..	..	84·3	81·7	83·0	83·0	83·0	0·0
Temperature of Evaporation	3·4	6·4	4·9	77·8	71·3	74·5	75·3	73·8	1·7
Temperature of Dew Point.....	2·1	5·1	3·6	76·2	68·2	72·2	72·4	72·1	0·3
Pressure of Moisture	0·060	0·110	0·085	0·890	0·694	0·792	0·797	0·788	0·009
Humidity of Air.....	0·15	0·25	0·20	0·83	0·74	0·79	0·74	0·87	0·13
Pressure of Supposed Dry Air ..	0·106	0·193	0·150	28·828	29·204	29·016	29·017	29·014	0·003
Weight of a cubic foot of Air in Grains.....	10	17	13	496	506	501	499	506	7
Weight of Water in a cubic foot of Air in Grains	0·6	1·1	0·9	9·6	7·6	8·6	8·6	8·5	0·1
Weight required for complete Saturation	2·5	3·0	2·7	1·9	2·6	2·3	3·0	1·6	1·4
Quantity of Water Evaporated ..	0·009	0·014	0·012	5·685	7·275	6·480	0·141	0·077	0·064
Azimuth of Wind	− 22	− 63	− 42	− 89	− 16	− 52	− 48	− 52	− 4
Force of Wind.....	0·26	0·33	0·29	0·27	0·15	0·21	0·21	0·20	0·01
Extent of Cloudy Sky.....	1·1	1·1	1·1	5·4	1·4	3·4	3·5	3·3	0·2
Fall of Rain by Newman's Gauge.	..	..	..	48·49	2·78	51·27	26·71	24·56	2·15

DIURNAL CHANGES OF THE METEOROLOGICAL ELEMENTS

1857

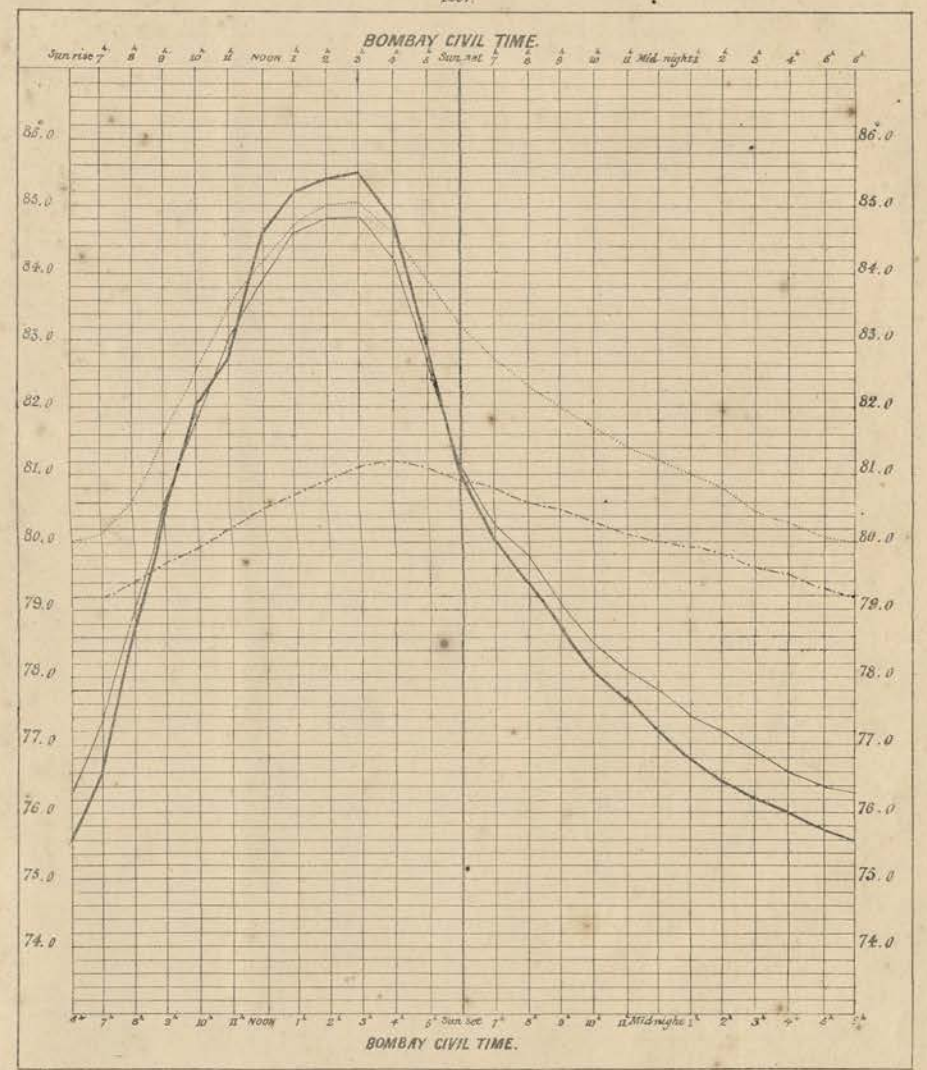

BOMBAY CIVIL TIME
SUN RISE. 7h 8h 9h 10h 11h NOON. 1h 2h 3h 4h 5h SUN SET 7h 8h 9h 10h 11h M. NIGHT 1h 2h 3h 4h 5h 6h
in.
29.860
29.750
STANDARD BAROMETER
29.050
28.990
SUPPOSED DRY AIR
85.0
72.0
TEMPERATURE OF THE AIR
TEMPERATURE OF EVAPORATION OR (WET BULB)
in.
0.820
0.770
PRESSURE OF MOISTURE
0.90
0.70
HUMIDITY OF AIR
W. 100 90 80 70 60 50 40 30 20 10
N. 0 10 20 30 40 50 60 70 80
E. 90
SUMMER WIND
WINTER WIND
Inches 7 6 5 4 3 2 1 0
FALL OF RAIN
6h 7h 8h 9h 10h 11h NOON 1h 2h 3h 4h 5h 6h 7h 8h 9h 10h 11h M. NIGHT 1h 2h 3h 4h 5h 6h
BOMBAY CIVIL TIME

Drawn by Sucaram C. Setti.

Cut and by Govardhan Laximan 1st Assist M.D.

DIURNAL VARIATION OF TEMPERATURE under different SITUATIONS.

1857.

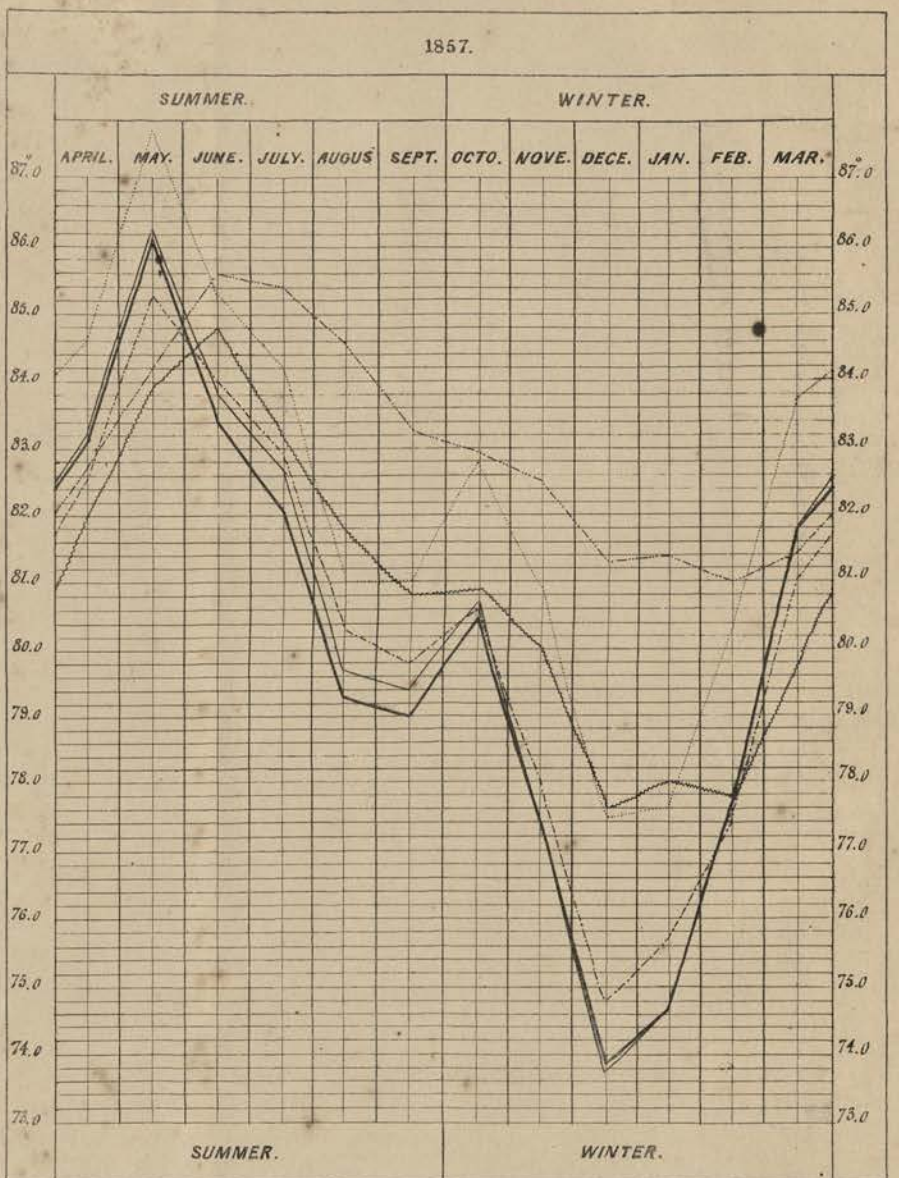


Mean Temperature of the External and Free AIR.
Mean Temperature of AIR in contact with the Surface of the Ground.
" " " confined within the Observatory.
" " of GROUND SLO inches below the Surface.

Drawn by Succaram G. Sett.

Carved by Goverdhan Luxman 1st Assist. M.D.

MONTHLY VARIATION OF TEMPERATURE under different SITUATIONS.

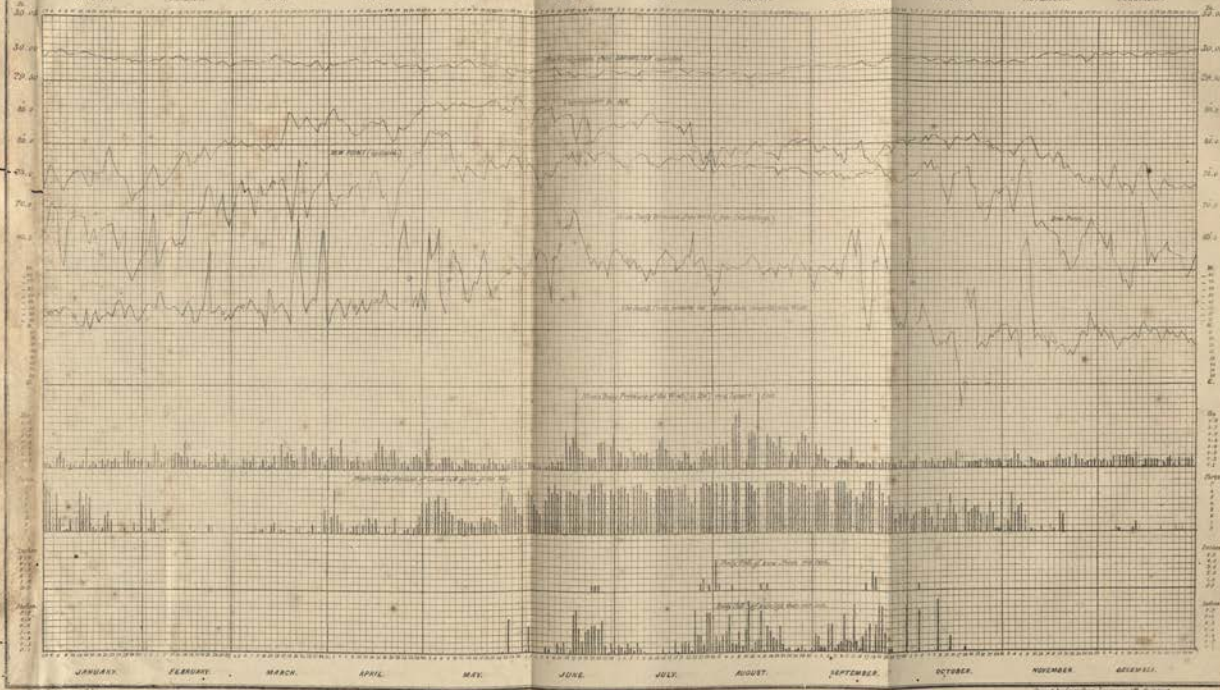


Mean Temperature of the External and Free AIR.
Mean Temperature of AIR in contact with the surface of the Ground.
" " " confined within the Observatory.
Mean Temperature of GROUND Six inches below the Surface.
" " " Twenty inches below the Surface.
" " " Sixty inches below the Surface.

Drawn by Saccarum C. Sett.

Carved by Goverdhun Luxman 1st Assist. M.D.

CURVES exhibiting the principal METEOROLOGICAL PHENOMENA in the YEAR 1857, as observed at the OBSERVATORY BOMBAY. (A dotted line denotes that no observations were made where it occurs.)



BOMBAY MAGNETICAL OBSERVATORY.

TIDAL OBSERVATIONS

FOR 1857.

TIDAL OBSERVATIONS DURING 1857.

The time of high-water was reduced from the curves of the Self-registering Tidal Apparatus. The observations so obtained are not considered satisfactory, as the cocks of the syphon, chiefly the lower one, are not supposed to be completely air-tight; but the repairs of the lower cock would cause a break in the tidal curves. At least for about a month or two it had been thought advisable to use the Apparatus in its present condition. It has been said in the Introduction of the volume for 1847, that the farthest end of the syphon is about four feet below the lowest ebbing mark, but this is not true. It was observed, on the 2nd of December 1857, that that end was a quarter of a foot above the level of the sea, and the water from the tide-well was slowly running out.

Having thus explained, and as had been already mentioned in the preceding volumes, that the registry is frequently broken by the manifold disadvantages under which the Apparatus works, it cannot be any longer considered a perfect instrument.

The Daily Observations, though broken in some instances, are given in the following pages.

MEAN SOLAR TIME AND HEIGHT OF HIGH AND LOW WATER, *corresponding with the ☽'s Upper and Lower Transit.*

DATE.	☽'s Upper Transit.						☽'s Lower Transit.						Greatest Daily Range of Tide in Feet.	Moon's Age.
	Time of ☽'s Transit.	High Water.		Low Water.		Range of Tide.	Time of ☽'s Transit.	High Water.		Low Water.		Range of Tide.		
		Time.	Height in Feet.	Time.	Height in Feet.			Time.	Height in Feet.	Time.	Height in Feet.			
	H. M.	H. M.		H. M.			H. M.	H. M.		H. M.				D.
JANUARY, 1857. 1	4.22	3.29	0·6	9.24	–5.4	6.0	16.46	16.34	2.5	22.54	–4.5	7.0	7.9	4.9
2	5.10	4.26	0.5	10.11	–4.1	4.6	17.34	17.12	2.6	23.52	–4.3	6.9	6.9	5.9
3	5.58	5.48	0.4	11.28	–3.2	3.6	18.22	17.39	2.1	24.44	–4.8	6.9	6.9	7.0 ☽
4	6.46	7.20	0.4	12.25	–2.5	2.9	19.13	18.31	1.5	25.00	–5.5	7.0	7.0	8.0
5	7.38	9.02	0.7	14.07	–2.2	2.9	20.06	19.23	0·8	27.03	–6.1	6.9	6.9	9.0 P
6	8.34	10.29	1.1	15.24	–2.1	3.2	21.04	20.35	0.8	27.40	–6 7	7.5	7.8	10.0
7	9.33	11.16	2.0	17.16	–2.2	4.2	22.04	21.47	1.0	28.42	–6.6	7.6	8.6	11.0
8	10.35	11.55	2.9	17.25	–2.6	5.5	23.06	22.45	1.4	29.15	–6.6	8.0	9.5	12.0
9	11.37	12.35	3.5	18.20	–2.9	6.4	24.06	23.15	1.6	30.00	–6.6	8.2	10.1	13.0
10	12.35	13.25	3.8	19.00	–3.0	6.8							6.8	14.0 ○
11	13.30	14.00	3.7	19.40	–3.2	6.9	1.02	0.35	1.8	6.50	–6.4	8.2	10.1	15.1
12	14.19	14.40	3.6	20.30	–3.7	7.3	1.54	1.25	1.7	7.15	–5.8	7.5	9.4	16.1
13	15.04	15.22	3.8	21.29	–3.0	6.8	2.41	2.05	1.5	7.55	–5.6	7.1	9.4	17.1
14	15.46	16.05	4.0	22.30	–2.1	6.1	3.45	3.09	1.4	8.51	–4.3	5.7	8.3	18.1
15	16.26	16.29	3.6	22.54	–2.0	5.6	4.06	3.22	1.9	8.37	–2.6	4.5	6.2	16.1
16	17.06	16.49	3.2	23.39	–2.1	5.3	4.46	4.10	2.1	9.30	–1.6	3.7	5.3	20.1
17	17.45	17.27	2.6	24.27	–2.2	4.8	5.26	5.18	1.8	10.23	–0.6	2.4	4.8	21.1 ☾
18	18.27	18.05	2.0	25.00	–2.6	4.6	6.06	6.31	1.4	10.41	0.0	1.4	4.6	22.1 A
19	19.11	18.58	1.7	26.38	–2.9	4.6	6.50	8.05	1.6	11.35	0.6	1.0	4.6	23.2
20	19.59	20.05	1·6	27.36	–3.3	4.9	7.36	9.07	2.1	14.22	0.6	1.5	5.4	24.2
21	20.51	21.45	1.9	27.55	–3.5	5.4	8.26	10.20	2.7	15.35	0.6	2.1	6.2	25.2
22	21.46	22.34	2.6	28.54	–3.7	6.3	9.19	11.30	3.4	16.49	0.4	3.0	7.1	26.2
23	22.43	23.08	3.4	29.43	–3.9	7.3	10.15	12.08	4.0	17.28	0.0	4.0	7.9	27.2
24	23.40						11.12	12.35	4.8	18.20	–0.1	4.9	4.9	28.2
25		0.20	3.9	6.20	–4.1	8.0	12.08	13.05	5.4	18.40	–0.8	6.2	9.5	29.2 ●
26	0.26	1.02	4.1	7·12	–4.1	8.2	13.02	13.38	5.6	19.23	–1.3	6.9	9.7	0.3
27	1.28	1.50	4.4	7.35	–3.6	8.0	13.53	14.00	5.8	20.15	–1.8	7.6	9.4	1.3
28	2.19	2.18	4.5	8.13	–3.4	7.9	14.43	14.35	6.1	20.35	–2.5	8.6	9.7	2.3
29	3.07	3.11	4.3	8.55	–2.5	6.8	15.31	14.57	6.0	21.12	–2.7	8.7	8.7	3.3
30	3.55	4.24	3.3	9.34	–1.6	4.9	16.20	15.35	5.5	22.00	–3.1	8.6	8.6	4.3 P
31	4.44	4.57	3.0	10.27	–0.9	3.9	17.09	16.03	4.6	22.57	–3.3	7.9	7.9	5.3
FEBRUARY, 1857. 1	5.35	6.55	3.7	12.50	–0.3	4.0	18.02	16.36	3.9	24.11	–3.2	7.1	7.1	6.4 ☽
2	6.28	8.24	0.7	13.59	–1.8	2.5	18.57	17.40	3.5	25.20	–5.5	9.0	9.0	7.4
3	7.26	10.02	1.0	15.37	–1.9	2.9	19.56	18.13	0.4	26.13	–5.5	6.5	6·5	8.4
4	8.25	11.10	1.2	16.25	–2·7	3.9	20.55	20.11	–0.2	27.26	–6.3	6.1	7.5	9.4
5	9.26	11.53	1.9	17.43	–3.2	5.1	21.55	21.29	0·2	28.24	–6.4	6.6	8.3	10.4
6	10.24	12.31	2.4	18.26	–3.6	6.0	22.52	22.47	0.6	29.17	–6.6	7.2	9.0	11.4
7	11.19	13.14	2.5	19.09	–4.1	6.6	23.44	23.45	1.0	30.00	–6.7	7.7	9.2	12.5
8	12.10	13.38	2.8	19.58	–4.5	7.3							7.3	13.5 ○
9	12.57	14.16	2.6	20·16	–4.7	7.3	0.43	0.37	1.4	6.26	–6.5	7.9	8.9	14.5 ●
10	13.40	14.30	2.6	20.39	–4.7	7.3	1.18	1.20	1.1	7.05	–6.4	7.5	9.0	15.5
11	14.21	14.56	2.6	21.06	–4.7	7.3	2.00	1.50	1.3	7.30	–5.6	6·9	8.2	16.5
12	15.01	15.09	2·0	21 34	–4.9	6.9	3·40	2.37	1·3	8.07	–4.6	5.9	6.9	17.5
13	15.41	15.32	1·4	22·02	–4.9	6·3	3.21	3.10	1.0	8·25	–4.2	5.2	5.9	18.6
14	16.21	16·00	1·1	22·20	–4·6	5·7	4.01	3.38	0.5	8.18	–3.6	4.1	5·7	19.6 A
15	17.04	16·18	0·4	22 48	–4·5	4·9	4.43	4·16	0,3	9.21	–2·9	3·2	4·9	20.6
16	17.50	16·36	0.1	24·10	–4.3	4·4	5.23	4·59	0,0	10·09	–2 0	2·0	4.4	21.6 ☾
17	18.40	17·29	0·7	25·12	–4·5	5·2	6.15	6.17	–0·3	11·47	–1.2	0·9	5·2	22.6
18	19.33	19·22	0·7	26·55	–4·6	5·3	7.07	8·10	0.0	13.40	–1·3	2·3	5·3	23.6
19	20.28	21·20	0·3	27·15	–5·0	5·3	8.01	9.29	0·4	15·23	–1·4	1·8	5·4	24.7
20	21.25	22·33	0·4	28·38	–5·8	6·2	8.57	10·56	0·9	16·26	–2·0	2·9	6·7	25.7
21	22.21	23·31	1·1	29.26	–6·3	7·4	9·53	11·19	1.4	17·19	–2·8	4·2	7·7	26.7
22	23.15	23·56	2·0	29·59	–6·4	8·4	10.48	12·07	2.3	19.07	–3·3	5·6	8·7	27.7
23							11.41	12·30	2·9	18·35	–3·8	6·7	6·7	28.7
24	0.08	0·53	2·6	6·42	–5·7	8·3	12.33	13·03	3·7	19·08	–4·3	8·0	9·4	29.7 ●
25	0.58	1·40	3·0	7·15	–5·2	8·2	13.23	13·31	4.3	19·36	–4·8	9·1	9·5	0.8
26	1.48	2·28	3·1	7·58	–4·6	7·7	14.13	14·00	4.4	20·09	–5·6	10·0	10·0	1.8 P
27	2.38	3.16	2·6	8·31	–3·7	6·3	15.04	14·22	4.0	20·27	–6·0	10·0	10·0	2.8
28	3.29	4·09	2·4	9·39	–3·0	5·4	15.57	14·50	3·2	21·25	–6·1	9·3	9·3	3.8

MEAN SOLAR TIME AND HEIGHT OF HIGH AND LOW WATER, *corresponding with the ☽'s Upper and Lower Transit.*

DATE.	☽'s Upper Transit.						☽'s Lower Transit.						Greatest Daily Range of Tide in Feet. *	Moon's Age.
	Time of ☽'s Transit.	High Water.		Low Water.		Range of Tide.	Time of ☽'s Transit.	High Water.		Low Water.		Range of Tide.		
		Time.	Height in Feet.	Time.	Height in Feet.			Time.	Height in Feet.	Time.	Height in Feet.			
	H. M.	H. M.		H. M.			H. M.	H. M.		H. M.				D.
MARCH, 1857. 1	4.23	3.36	2.4	9.31	-3.0	5.4	16.52	15.30	2.4	22.05	-5.8	8.2	8.2	4.8
2	5.20	5.09	1.4	10.59	-2.4	3.8	17.50	16.03	1.1	23.23	-5.5	6.6	6.9	5.9 ☽
3	6.20	6.32	0.6	12.22	-1.9	2.5	18.50	17.01	0.4	25.00	-4.8	5.2	5.4	6.9
4	7.20	8.04	0.7	14.14	-1.8	2.5	19.49	18.03	-0.4	25.37	-5.1	4.7	5.8	7.9
5	8.19	9.27	0.9	15.37	-2.4	3.3	20.46	20.05	-0.4	26.56	-5.2	4.8	6.1	8.9
6	9.14	10.30	1.4	16.30	-2.9	4.3	21.39	21.39	0.3	27.54	-5.3	5.6	6.7	9.9
7	10.05	11.17	1.8	17.12	-3.6	5.4	22.29	22.31	0.6	28.56	-5.6	6.2	7.4	11.0
8	10.53	11.50	2.2	17.55	-4.1	6.3	23.14	23.20	1.1	29.35	-5.4	6.5	7.6	12.0
9	11.36	11.19	2.5	18.34	-4.2	6.7	23.57						6.7	13.0
10	12.18	12.43	2.6	18.58	-4.6	7.2		0.12	1.7	6.07	-4.9	6.6	7.5	14.0 ○
11	12.58	13.06	2.6	19.21	-4.8	7.4	0.39	0.50	1.8	6.30	-4.7	6.5	7.4	15.0
12	13.37	13.29	2.5	19.54	-5.0	7.5	1.18	1.28	1.9	6.53	-4.4	6.3	7.5	16.1
13	14.18	14.08	2.5	20.23	-5.1	7.6	1.58	2.14	2.2	7.49	-3.6	5.8	7.6	17.1 A
14	15.00	14.26	1.7	20.51	-5.4	7.1	2.39	2.52	1.8	8.17	-3.4	5.2	7.2	18.1
15	15.44	14.44	1.2	21.34	-5.5	6.7	3.22	3.20	1.3	8.55	-3.3	4.6	6.8	19.1
16	16.32	15.07	0.6	21.52	-5.1	5.7	4.08	3.53	0.5	9.13	-3.0	3.5	5.7	20.1
17	17.23	15.25	0.3	22.15	-4.7	5.0	4.58	4.26	0.4	10.01	-2.0	2.4	5.1	21.2
18	18.16	16.03	-0.3	23.03	-4.5	4.2	5.50	5.24	0.1	11.24	-1.6	1.7	4.6	22.2 ☾
19	19 11	16.41	-0.8	24.36	-4.2	3.4	6.44	7.57	0.2	13.47	-1.2	1.4	4.4	23.2
20	20.06	17.54	-1.0				7.39	9.20	0 6	14.55	-1.5	2.1	2.1	24.2
21	21.00						8.33							25.2
22	21.52						9.26							26.3
23	22.43			29.10	-4.2		10.18							27.3
24	23.34						11.09	11.33	4.1	17.18	-4.6	8.7	8.7	28.3
25		0.17	4.3	5.32	-4.5	8.8	11.59	12.01	4.7	17.46	-4.9	9.6	9.6	29.3 ●
26	0.24	0.55	4.5	6.25	-4.3	8.8	12.51	12.24	4.4	17.59	-5.5	9.9	10.0	0.4 P
27	1.17	1.38	4.6	7.15	-3.8	8.4	13.45	12.52	4.2	19.02	-5.7	9.9	10.3	1.4
28	2.12	2.26	4.4	7.46	-3.5	7.9	14.41	13.20	4.0	19.50	-5.9	9.9	10.3	2.4
29	3.10	2.59	4.3	8.29	-3.3	7.6	15.41	13.38	3.7	20.23	-5.5	9.2	9.8	3.4
30	4.11	3.12	3.8	9.02	-2.7	6.5	16.42	14.21	2.7	21.01	-5.3	8.0	9.1	4.4
31	5.13	3.55	2.8	10.15	-2.3	5.1	17.43	14.49	1.6	21.49	-5.2	6.8	8.0	5.5
APRIL, 1857. 1	6.13	5.48	1.6	11.18	-2.2	3.8	18.41	15.57	0.5	23.22	-5.1	5.6	6.7	6.5 ☽
2	7.10	6.41	0.6	13.11	-2.0	2.6	19.36	18.00	0.0	25.10	-4.9	4.9	5.5	7.5
3	8.03	9.04	0.6	14.50	-3.4	4.0	20.26	20.28	-0.8	26.58	-4.7	3.9	5.3	8.5
4	8.51	9.47	0.7	15.52	-3.9	4.6	21.13	21.41	-0.3	28.06	-4.9	4.6	5.6	9.6
5	9.35	10.50	1.3	16.35	-4.3	5.6	21.56	22.39	0.5	28.44	-4.7	5.2	6.0	10.6
6	10.17	11.13	1.5	17.03	-5.1	6.6	22.37	23.37	0.8	29.27	-4.7	5.5	6.6	11.6
7	10.57	11.41	1.6	17.36	-5.3	6.9	23.16						6.9	12.6
8	11.36	12.09	1.8	18.04	-5.7	7.5	23.56	0.05	1.2	5.55	-4.4	5.6	7.5	13.6
9	12.16	12.27	1.6	18.32	-5.9	7.5		0.53	1.6	6.38	-4.1	5.7 *	7.5	14.6 ○
10	12.57	13.05	1.4	18.40	-6.3	7.7	0.37	1.16	1.5	7.06	-4.0	5.5	7.3	15.6
11	13.41	13.18	1.2	19.13	-6.3	7.5	1.19	1.39	1.2	7.19	-3.8	5.0	7.5	16.7 A
12	14.28	13.21	0.8	19.26	-6.5	7.3	2.05	2.02	1.1	7.37	-3.5	4.6	7.6	17.7
13	15.17	13.44	0.7	19.49	-5.8	6.5	2.53	2.30	0.4	8.10	-3.2	3.6	6.5	18.7
14	16.09	14.18	0.2	20.43	-5.6	5.8	3.43	3.24	0.9	8.43	-2.7	3.6	6.5	19.7
15	17.03	15.06	-0.4	21.31	-5.4	5.0	4.36	4.12	0.5	10.12	-2.4	2.9	5.9	20.7
16	17.56	15.24	-1.2	22.39	-5.1	3.9	5.29	4.55	0.1	11.10	-2.4	2.3	5.2	21.8
17	18.49	16.52	-1.6	24.12	-4.7	3.1	6.23	6.08	-0.2	12.43	-2.4	2.2	4.5	22.8 ☾
18	19.41	19.25	-1.4	25.20	-4.8	3.4	7.15	7.36	0.0	14.46	-3.1	3.1	4.8	23.8
19	20.31	20.33	-0.6	26.28	-4.9	4.3	8.06	8.39	0.4	15.19	-4.0	4.4	5.3	24.8
20	21.20	21.56	0.2	27.46	-4.9	5.1	8.55	9.32	0.7	16.02	-4.9	5.6	5.6	25.9
21	22.10	22.49	1.5	28.24	-4.9	6.4	9.45	10.25	1.6	16.30	-5.5	7.1	7.1	26.9
22	23.01	23.53	2.9	29.23	-3.8	6.7	10.35	11.04	2.7	17.24	-5.6	8.3	8.5	27.9
23	23.54						11.28	11.22	3.4	17.41	-6.4	9.8	9.8	28.9
24		0.35	3.9	6.14	-3.6	7.5	12.24	12 04	3.4	17.58	-7.2	10.6	11.1	0.0 ●
25	0.52	1.03	3.8	7.02	-3.4	7.2	13.23	12.37	3.0	19.21	-7.0	10.0	10.8	1.0 P
26	1.54	1.30	3.4	8.00	-3.5	6.9	14.26	13.14	2.6	19.44	-6.5	9.1	9.9	2.0
27	2.58	2.13	2.6	8.47	-3.5	6.1	15.30	13.57	1.5	20.46	-6.0	7.5	8.6	3.0
28	4.02	3.15	1.7	9.50	-3.4	5.1	16.31	15.00	0.6	21.54	-5.5	6.1	7.2	4.1
29	5.02	4.18	1.4	10.47	-3.1	4.5	17.29	15.57	0.3	22.41	-5.2	5.5	6.6	5.1
30	5.58	5.50	1.4	12.25	-2.7	4.1	18.22	17.09	-0.3	24.19	-4.2	3.9	5.6	6.1 ☽

MEAN SOLAR TIME AND HEIGHT OF HIGH AND LOW WATER, *corresponding with the ☽'s Upper and Lower Transit.*

DATE.	☽'s Upper Transit.						☽'s Lower Transit.						Greatest Daily Range of Tide in Feet.	Moon's Age.
	Time of ☽'s Transit.	High Water.		Low Water.		Range of Tide.	Time of ☽'s Transit.	High Water.		Low Water.		Range of Tide.		
		Time.	Height in Feet.	Time.	Height in Feet.			Time.	Height in Feet.	Time.	Height in Feet.			
	H. M.	H. M.		H. M.			H. M.	H. M.		H. M.				D.
MAY, 1857. 1	6.49	6.48	1.3	13.48	-2.7	4.6	19.11	18.52	-0.1	25.07	-3.3	3.2	4.6	7.1
2	7.34	7.56	1.6	14.40	-2.8	4.4	19.54	20.40	0.4	26.04	-3.0	3.4	4.6	8.1
3	8.16	9.03	1.9	15.48	-3.2	5.1	20.36	21.32	1.1	27.21	-2.7	3.8	5.1	9.2
4	8.57	9.41	2.0	16.05	-3.4	5.4	21.16	22.29	1.3	28.15	-3.2	4.5	5.4	10.2
5	9.36	10.25	1.6	16.39	-4.7	6.3	21.56	23.14	1.5	28.57	-3.1	4.6	6.3	11.2
6	10.15	10.47	1.4	16.57	-5.4	6.8	22.36	23.51	1.4	29.41	-3.3	4.7	6.8	12.2
7	10.56	11.15	1.1	17.10	-6.0	7.1	23.18						7.1	13.3 A
8	11.39	11.43	0.8	17.38	-6.2	7.0		0.29	1.6	6.19	-3.2	4.8	7.8	14.3 ○
9	12.25	12.06	1.0	18.00	-6.1	7.1	0.02	1.02	1.7	6.47	-3.2	4.9	7.8	15.3
10	13.13	12.39	0.7	18.39	-6.4	7.1	0.49	1.40	2.1	7.20	-3.1	5.2	8.5	16.3
11	14.05	12.57	0.6	19.07	-6.3	6.9	1.39	2.13	1.6	7.58	-3.2	4.8	7.9	17.3
12	14.58	13.35	0.3	19.50	-6.2	6.5	2.31	2.51	1.4	8.36	-3.1	4.5	7.6	18.4
13	15.51	14.09	0.1	20.23	-6.0	6.1	3.24	3.35	1.1	9.05	-3.0	4.1	7.1	19.4
14	16.44	14.46	-0.4	21.31	-5.6	5.2	4.17	4.12	0.8	10.12	-2.9	3.7	6.4	20.4
15	17.34	15.39	-0.9	22.24	-5.1	4.2	5.09	5.00	0.7	11.15	-2.9	3.6	5.8	21.4
16	18.23	17.12	-1.2	24.02	-4.5	3.3	5.59	5.38	0.7	12.28	-3.1	3.8	5.2	22.5 ☾
17	19.11	19.10	-0.8	25.00	-4.2	3.4	6.47	6.41	0.6	13.36	-3.6	4.2	4.8	23.5
18	19.59	20.43	-0.1	26.18	-4.1	4.0	7.35	7.34	0.9	14.29	-4.6	5.5	5.5	24.5
19	20.47	21.31	0.8	27.06	-3.8	4.6	8.23	8.27	1.3	15.27	-5.4	6.7	6.7	25.5
20	21.38	22.39	1.6	27.59	-3.8	5.4	9.13	9.20	1.5	16.00	-6.4	7.9	8.0	26.6
21	22.33	23.34	2.0	29.09	-3.9	5.9	10.06	10.09	1.5	16.34	-7.4	8.9	9.4	27.6
22	23.33						11.03	10.48	1.3	16.53	-8.0	9.3	9.1	28.6 P
23		0.23	2.7	6.07	-3.8	6.5	12.05	11.21	1.4	17.36	-8.0	9.4	10.7	29.6 ●
24	0.37	1.00	3.1	6.50	-3.9	7.0	13.10	12.04	1.5	18.19	-8.0	9.5	11.1	0.7
25	1.42	1.53	3.4	7.43	-3.6	7.0	14.15	12.52	1.3	19.07	-7.4	8.7	10.8	1.7
26	2.47	2.36	3.4	8.26	-3.5	6.9	15.17	13.30	1.2	20.10	-6.7	7.9	10.1	2.7
27	3.46	3.34	2.8	9.29	-3.4	6.2	16.13	14.39	0.8	21.09	-6.0	6.8	8.8	3.7
28	4.41	4.33	2.0	10.38	-3.7	5.7	17.04	15.42	-0.1	22.02	-5.2	5.1	7.2	4.8
29	5.29	5.26	1.1	11.26	-3.8	4.9	17.52	17.00	-0.7	23.00	-4.7	4.0	5.8	5.8
30	6.13	6.14	0.8	12.44	-4.2	5.0	18.34	18.13	-1.1	24.33	-4.0	2.9	5.0	6.8 ☽
31	6.55	7.02	0.5	14.17	-4.6	5.1	19.15	19.51	-0.7	25.36	-3.6	2.9	5.1	7.8
JUNE, 1857. 1	7.35	7.30	0.4	14.30	-5.2	5.6	19.54	21.24	-0.4	26.24	-3.3	2.9	5.6	8.8
2	8.14	8.18	0.3	15.18	-5.6	5.9	20.35	22.22	0.0	27.22	-3.1	3.1	5.9	9.9
3	8.57	9.24	0.2	15.40	-5.6	5.8	21.16	23.33	0.5	28.43	-2.9	3.4	6.1	10.9
4	9.37	9.52	0.3	16.22	-5.8	6.1	21.59	23.41	1.0	29.16	-2.7	3.7	6.8	11.9 A
5	10.22	10.30	0.4	16.45	-6.0	6.4	22.48						6.4	12.9
6	11.09	11.08	0.5	17.13	-6.1	6.6	23.35	0.04	1.5	6.04	-2.7	4.2	7.6	14.0
7	12.00	11.47	0.6	18.02	-6.2	6.8		0.57	1.7	6.47	-2.7	4.4	7.9	15.0 ○
8	12.53	12.25	0.6	18.30	-6.3	6.9	0.27	1.31	1.8	7.26	-2.9	4.7	8.1	16.0
9	13.47	12.59	0.6	19.09	-6.3	6.9	1.20	2.09	1.8	7.54	-3.1	4.9	8.1	17.0
10	14.40	13.57	0.4	19.57	-6.2	6.6	2.14	2.53	1.7	8.33	-3.2	4.9	7.9	18.1
11	15.32	14.13	0.4	20.13	-5.6	6.0	3.06	3.14	1.8	8.59	-2.9	4.7	7.4	19.1
12	16.21	15.01	0.3	21.21	-5.1	5.4	3.56	3.57	2.0	9.57	-3.0	5.0	7.1	20.1
13	17.08	16.09	0.2	22.14	-4.4	4.6	4.44	4.35	1.8	10.45	-3.2	5.0	6.2	21.1
14	17.54	17.17	0.4	23.02	-3.4	3.8	5.31	5.13	1.9	11.53	-3.3	5.2	5.3	22.2
15	18.40	18.45	0.4	24.10	-3.3	3.7	6.17	6.01	2.1	12.46	-3.7	5.8	5.8	23.2 ☾
16	19.29	20.13	0.6	25.28	-2.8	3.4	7.05	6.34	1.7	13.34	-4.8	6.5	6.1	24.2
17	20.20	21.16	1.5	25.56	-2.6	4.1	7.55	7.27	1.6	14.27	-5.4	7.0	7.0	25.2
18	21.16	22.14	2.4	27.34	-2.4	4.8	8.48	8.15	1.5	15.05	-6.1	7.6	8.5	26.3
19	22.16	22.42	3.4	28.42	-2.4	5.8	9.47	8.58	1.6	15.43	-6.6	8.2	10.0	27.3 P
20	23.20	23.56	4.0	29.26	-2.6	6.6	10.49	10.01	1.9	16.36	-6.6	8.5	10.6	28.3
21							11.55	11.15	2.0	17.25	-7.1	9.1	9.1	29.3 ●
22	0.26	0.55	5.0	6.59	-2.1	7.1	12.57	12.08	3.0	18.23	-5.6	8.6	10.6	0.4
23	1.29	1.42	5.1	7.42	-2.2	7.3	13.58	12.51	3.4	19.06	-5.1	8.5	10.2	1.4
24	2.27	2.20	5.4	8.20	-2.1	7.5	14.53	13.39	3.0	20.00	-3.6	6.6	9.0	2.4
25	3.20	3.08	4.4	8.56	-2.1	6.5	15.43	14.42	2.4	21.02	-4.0	6.4	8.4	3.4
26	4.07	4.00	3.6	9.46	-2.4	6.0	16.29	15.30	1.6	21.35	-3.5	5.1	7.1	4.4
27	4.51	4.39	3.2	10.49	-2.6	5.8	17.11	16.38	1.1	22.28	-2.8	3.9	6.0	5.5
28	5.32	5.17	2.5	11.57	-2.7	5.2	17.52	17.41	0.8	23.36	-1.6	2.4	5.2	6.5 ☽
29	6.12	5.55	2.1	12.40	-2.6	4.7	18.32	19.00	1.0	25.00	-0.9	1.9	4.7	7.5
30	6.52	6.28	1.9	13.28	-3.0	4.9	19.13	20.27	1.2	26.17	-0.6	1.8	4.9	8.5

MEAN SOLAR TIME AND HEIGHT OF HIGH AND LOW WATER, *corresponding with the ☽'s Upper and Lower Transit.*

DATE.	☽'s Upper Transit.						☽'s Lower Transit.						Greatest Daily Range of Tide in Feet.	Moon's Age.
	Time of ☽'s Transit.	High Water.		Low Water.		Range of Tide.	Time of ☽'s Transit.	High Water.		Low Water.		Range of Tide.		
		Time.	Height in Feet.	Time.	Height in Feet.			Time.	Height in Feet.	Time.	Height in Feet.			
	H. M.	H. M.		H. M.			H. M.	H. M.		H. M.				D.
JULY, 1857. 1	7.33	7.20	1.3	13.45	-3.2	4.5	19.55	21.29	1.6	26.54	-0.5	2.1	4.8	9.5 A
2	8.17	8.14	1.0	14.59	-3.6	4.6	20.41	22.48	1.8	28.00	-0.8	2.6	5.4	10.6
3	9.04	9.12	1.1	15.44	-4.4	5.5	21.29	23.33	2.1	28.58	-1.1	3.2	6.5	11.6
4	9.54	9.57	1.2	16.17	-4.6	5.8	22.21	23.46	2.7	29.34	-1.2	3.9	7.3	12.6
5	10.47	10.30	1.2	16.45	-4.8	6.0	23.14						6.0	13.6
6	11.41	11.11	1.5	17.23	-5.0	6.5		0.04	3.1	6.09	-1.6	4.7	8.1	14.6 ○
7	12.35	11.56	1.8	18.26	-5.1	6.9	0.08	0.47	3.4	6.40	-1.7	5.1	8.5	15.7
8	13.28	12.34	1.9	18.39	-5.0	6.9	1.01	1.25	3.4	7.10	-1.9	5.3	8.4	16.7
9	14.18	12.47	1.9	19.17	-5.1	7.0	1.53	2.08	3.4	7.48	-2.2	5.6	8.5	17.7
10	15.06	13.55	2.0	20.20	-4.6	6.6	2.42	2.36	3.5	8.26	-2.5	6.0	8.1	18.7
11	15.52	14.43	1.7	20.53	-3.8	5.5	3.29	30.4	3.5	9.06	-2.8	6.3	7.3	19.7
12	16.38						4.15	3.42	3.2	10.12	-3.3	6.5	6.5	20.8
13	17.25						5.02							21.8
14	18.14	18.23	1.5	24.06	-1.7	3.2	5.49	5.10	3.0	11.54	-3.8	6.8	6.8	22.8 ☾
15	19.07	20.08	1.5	25.06	-1.4	2.9	6.41	5.35	2.3	12.42	-4.4	6.7	6.7	23.8
16	20.04	21.29	1.7	26.39	-1.4	3.1	7.35	6.30	1.7	13.55	-5.1	6.8	6.8	24.8 ●
17	21.05	22.37	2.4	28.00	-1.6	4.0	8.35	7.48	1.4	15.05	-5.5	6.9	7.9	25.9 P
18	22.09	23.25	3.1	28.58	-2.0	5.1	9.37	9.13	1.5	15.39	-5.7	7.2	8.8	26.9
19	23.12						10.40	10.14	1.6	16.41	-6.3	7.9	7.9	27.9
20		0.06	3.4	5.53	-2 5	5.9	11.42	11.12	1.8	17.32	-6.3	8.1	9.7	28.9 ●
21	0.12	1.02	3.6	6.45	-2.6	6.2	12.39	12.07	2.4	18.16	-5.6	8.0	9.2	0.0
22	1.07	1.42	4.3	7.27	-2.6	6.9	13.32	13.06	2.8	18.51	-5.1	7.9	9.4	1.0
23	1.57	2.05	4.3	8.10	-2.7	7.0	14.20	13.29	2.7	19.44	-4.7	7.4	9.0	2.0
24	2.43	2.38	3.8	8.41	-3.1	6.9	15.04	14.17	2.3	20.05	-4.0	6.3	7.8	3.0
25	3.26	3.06	3.6	9.11	-3.1	6.7	15.	14.50	1.8	20.40	-3.4	5.2	7.0	4.0
26	4.07	3.34	3.1	9.41	-3.2	6.3	16.27	15.33	1.2	21.03	-2.7	3.9	6.3	5.1
27	4.47						17.08							6.1
28	5.29						17.50							7.1 ☽
29	6.12						18.35							8.1 A
30	6.57						19.22							9.1
31	7.46						20.12							10.2
AUGUST, 1857. 1	8.38						21.05							11.2
2	9.31						21.58							12.2
3	10.26						22.53							13.2
4	11.20	11.09	3.0	17.14	-3.6	6.6	23.45	0.05	2.5	5.45	-0.8	3.3	6.6	14.2
5	12.17	11.52	3.0	17.42	-2.8	5.8		0.48	4.7	6.33	-0.4	5.1	7.5	15.3 ○
6	13.01	12.15	5.5	18.40	-2.7	8.2	0.36	1.06	6.2	6.46	-0.1	6.3	8.9	16.3
7	13.49	13.07	4.6	18.43	-2.6	.2	1.25	1.24	5.8	7.19	-0.5	6.3	8.4	17.3
8	14.36	13.51	4.6	19.13	-2.5	7.1	2.12	1.52	6.2	7.57	-1.3	7.5	8.7	18.3
9	15.23	14.39	4.3	19.58	-1.9	6.2	2.59	2.35	5.9	8.15	-1.9	7.8	7.8	19.3
10	16.11	15.31	3.8	20.56	-1.2	5.0	3.47	3.15	5.4	9.32	-2.4	7.8	7.8	20.4
11	17.03	16.32	3.7	22.04	0.2	3.5	4.37	3.30	5.0	10.00	-2.1	7.1	7.1	21.4
12	17.58	17.27	2.8	23.42	0.1	2.7	5.31	4.38	3.2	10.53	-2.5	5.7	5.7	22.4 ☾
13	18.57	19.05	2.8	26.05	0.4	2.4	6.27	5.51	2.5	12.06	-2.7	5.2	5.5	23.4 P
14	19.58	21.23	3.6	27.03	0.0	3.6	7.28	7.24	2.4	13.54	-2.3	4.7	5.9	24.4
15	21.01	22.26	3.6	28.06	-0.7	4.3	8.29	8.22	2.5	14.52	-2.1	4.6	5.7	25.5
16	22.01	23.19	3.6	28.49	-1.5	5.1	9.30	9.25	2.4	15.45	-2.4	4.8	6.0	26.5
17	22.57	23.48	4.3	29.33	-2.0	6.3	10.28	10.13	2.8	16.43	-3.2	6.0	7.5	27.5
18	23.48						11.22	10.47	3.2	17.22	-4.2	7.4	7.4	28.5
19		0.11	4.7	6.01	-2.1	6.8	12.11	11.35	3.6	17.50	-3.7	7.3	8.4	29.5 ●
20	0.35	0.49	4.9	6.29	-2.5	7.4	12.57	12.08	3.7	18.23	-4.3	8.0	9.2	0.6
21	1.19	1.20	4.5	7.10	-2.6	7.1	13.40	12.39	3.2	18.39	-5.0	8.2	9.5	1.6
22	2.01	1.48	2.6	7.20	-2.7	5.3	14.22	13.15	3.2	18.57	-4.1	7.3	7.3	2.6
23	2.42	2.16	2.5	7.51	-3.8	6.3	15.03	14.03	2.1	20.05	-3.8	5.9	6.3	3.6
24	3.23	2.39	1.9	8.34	-3.9	5.8	15.45	14.43	1.4	20.18	-3.1	4.5	5.8	4.6
25	4.06	3.02	1.4	9.27	-3.9	5.3	16.28	15.31	1.1	20.41	-2.3	3.4	5.3	5.6
26	4.50	3.20	0.7	10.00	-4.1	4.8	17.14	16.09	0.6	21.14	-1.7	3.3	4.8	6.7 A
27	5.38	4.03	0.1	10.43	-3.7	3.8	18.02	17.27	-0.1	22.42	-2.8	2.7	3.8	7.7 ☽
28	6.28	6.16	-0.4	12.46	-3.7	3.3	18.54	19.05	-0.2	26.15	-3.1	2.9	3.3	8.7
29	7.21	7.34	-0.7	15.14	-3.8	3.1	19.48	21.00	-0.6				3.1	9.7
30	8.14						20.41							10.7
31	9.08						21.34							11.7

MEAN SOLAR TIME AND HEIGHT OF HIGH AND LOW WATER, *corresponding with the ☽'s Upper and Lower Transit.*

DATE.	☽'s Upper Transit.						☽'s Lower Transit.						Greatest Daily Range of Tide in Feet.	Moon's Age.	
	Time of ☽'s Transit.	High Water.		Low Water.		Range of Tide.	Time of ☽'s Transit.	High Water.		Low Water.		Range of Tide.			
		Time.	Height in Feet.	Time.	Height in Feet.			Time.	Height in Feet.	Time.	Height in Feet.				
	H. M.	H. M.		H. M.			H. M.	H. M.		H. M.				D.	
SEPTEMBER, 1857. 1	10.01						22.26							12.8	
2	10.52	11.16	1.1	16.50	-4.9	6.0	23.16	0.12	0.8	5.27	-3.2	4.0	6.0	13.8	
3	11.41	11.54	1.8	17.28	-5.0	6.8		0.25	2.1	6.06	-3.4	5.5	7.1	14.8	○
4	12.29	12.27	2.6	18.07	-4.6	7.2	0.05	0.48	2.8	6.33	-4.0	6.8	7.4	15.8	
5	13.17	13.05	3.0	18.40	-4.2	7.2	0.53	1.06	3.7	7.00	-4.4	8.1	8.1	16.8	
6	14.06	13.58	3.1	19.18	-3.5	6.6	1.42	1.39	3.8	7.34	-4.6	8.4	8.4	17.8	
7	14.57	14.46	3.0	20.00	-3.1	6.1	2.32	1.57	3.7	8.05	-5.0	8.7	8.7	18.9	P
8	15.53	15.39	2.9	21.09	-2.5	5.4	3.25	2.30	3.2	8.55	-5.1	8.3	8.3	19.9	
9	16.51						4.22							20.9	
10	1 52						5.22							21.9	☾
11	18.54						6.23							22.9	
12	19.54						7.24							23.9	
13	20.51						8.22							25.0	
14	21.43						9.16							26.0	
15	22.30						10.06							27.0	
16	23.15						10.52							28.0	
17	23.57						11.36							29.0	●
18							12.17							0.1	
19	0.38						12.58							1.1	
20	1.19	Air-cock out of order.					13.40	Air-cock out of order.						2.1	
21	2.01						14.23							3.1	
22	2.45						15.08							4.1	
23	3.31						15.55							5.1	A
24	4.19						16.45							6.1	
25	5.10						17.37							7.1	
26	6.03						18.30							8.1	☽
27	6.56						19.22							9.1	
28	7.49						20.14							10.2	
29	8.39						21.04							11.2	
30	9.29						21.53							12.2	
OCTOBER, 1857. 1	0.17						22.42							13.2	
2	11.06						23.10							14.2	
3	11.55													15.2	☉
4	12.47						0.21							16.2	
5	13.42						1.15							17.2	P
6	14.41						2.12							18.2	
7	15.44						3.13							19.2	
8	16.47						4.15							20.3	
9	17.49	16.34	1.6	22.16	-2.3	3.9	5.18	2.32	1.7	9.17	-5.7	7.4	7.4	21.3	☾
10	18.47	17.42	1.2	24.00	-2.0	3.2	6.17	3.20	0.7	10.05	-5.3	6.0	6.5	22.3	
11	19.40	18.52	1.0	25.22	-2.4	3.4	7.13	4.28	0.1	11.13	-4.2	4.3	5.2	23.3	
12	20.28	20.25	1.3	26.33	-2.8	4.1	8.04	6.00	-0.5	13.21	-4.1	3.6	5.4	24.3	
13	21.13	21.33	1.6	27.16	-3.4	5.0	8.50	8.14	0.0	14.24	-4.1	4.1	5.7	25.3	
14	21.55	22.16	1.8	28.18	-3.8	5.6	9.34	9.37	0.7	15.32	-3.8	4.5	5.6	26.3	
15	22.36	22.39	2.1	29.44	-4.4	6.5	10.15	10.10	1.3	16.15	-3.9	5.2	6.5	27.3	
16	23.15	23.22	2.3				10.56	11.03	1.7	17.08	-3.6	5.3		28.3	
17	23.58						11.36							29.3	●
18							12.19							0.4	
19	0.41						13.04							1.4	
20	1.26			6.46	-5.4		13.50	13.51	2.3	19.51	-2.3	4.6	7.7	2.4	A
21	2.14	1.05	1.6	7.11	-4.8	6.4	14.39	14.45	2.2	20.11	-1.8	4.0	7.0	3.4	
22	3.04						15.30							4.4	
23	3.55						16.22							5.4	
24	4.48						17.13							6.4	
25	5.39						18.04							7.4	☽
26	6.29						18.53							8.4	
27	7.18						19.41							9.4	
28	8.05						20.29							10.4	
29	8.52						21.16							11.4	
30	9.40						22.06							12.4	
31	10.32						22.58							13.4	

MEAN SOLAR TIME AND HEIGHT OF HIGH AND LOW WATER, *corresponding with the ☽'s Upper and Lower Transit.*

DATE.	☽'s Upper Transit.						☽'s Lower Transit.						Greatest Daily Range of Tide in Feet.	Moon's Age.
	Time of ☽'s Transit.	High Water.		Low Water.		Range of Tide.	Time of ☽'s Transit.	High Water.		Low Water.		Range of Tide.		
		Time.	Height in Feet.	Time.	Height in Feet.			Time.	Height in Feet.	Time.	Height in Feet.			
	H. M.	H. M.		H. M.			H. M.	H. M.		H. M.				D.
NOVEMBER, 1857. 1	11.25						23.55							14.4 ○
2	12.23													15.5 P
3	13.26						0.55							16.5
4	14.32						1.59							17.5
5	15.37						3.05							18.5
6	16.39						4.08							19.5
7	17.35						5.06							20.5
8	18.26						5.59							21.5 ☾
9	19.12						6.48							22.5
10	19.55						7.33							23.5
11	20.36						8.15							24.5
12	21.16	22.06	2.1	20.06	-4.3	6.4	8.56	10.18	1.7	16.11	-2.2	3.9	6.4	25.5
13	21.57	22.34	2.0	28.46	-4.5	6.5	9.36	11.15	2.1	17.07	-2.1	4.2	6.6	26.5
14	22.39	23.00	1.9	29.06	-4.6	6.5	10.18	11.38	2.4	17.40	-2.0	4.4	7.0	27.5
15	23.23	23.32	1.7	29.27	-5.1	6.8	11.01	12.13	2.6	18.03	-2.0	4.6	7.7	28.5
16	24.10	23.54	1.6	29.58	-5.2	6.8	11.47	12.36	2.7	18.31	-2.0	4.7	7.9	29.5 ●
17							12.35	13.11	2.7	19.04	-1.9	4.6	4.6	0.6 A
18	1.00	0.21	1.6	6.18	-5.0	6.6	13.25	13.37	2.8	19.35	-1.8	4.6	7.8	1.6
19	1.51	0.50	1.6	6.46	-4.7	6.3	14.17	14.23	2.7	20.10	-1.7	4.4	7.4	2.6
20	2.43	1.14	1.5	7.04	-4.6	6.1	15.08	14.53	2.3	20.50	-1.8	4.1	6.9	3.6
21	3.34	2.00	1.2	7.52	-4.3	5.5	16.00	15.17	2.1	21.19	-1.5	3.6	6.4	4.6
22	4.23	2.32	0.7	8.20	-3.8	4.5	16.47	—	—	—	—	—	—	5.6
23	5.11	3.30	0.0	9.39	-3.7	3.7	17.34	17.11	1.5	23.35	-1.8	3.3	5.2	6.6
24	5.58	4.42	-0.1	10.37	-3.3	3.2	18.20	17.56	1.7	24.56	-2.5	3.2	5.0	7.6 ☽
25	6.43	6.25	0.0	12.07	-2.8	2.8	19.06	19.00	1.7	26.06	-3.2	4.9	4.9	8.6
26	7.29	8.23	0.4	13.21	-2.5	2.9	19.53	19.44	1.7	26.47	-4.2	5.9	5.9	9.6
27	8.16	9.36	1.1	14.21	-2.3	3.4	20.42	20.32	1.8	27.20	-5.4	7.2	7.2	10.6
28	9.07	10.24	1.6	15.37	-2.4	4.0	21.35	21.43	1.8	27.58	-6.1	7.9	7.9	11.6
29	10.02	11.17	2.6	16.32	-2.2	4.8	22.33	22.01	2.2	28.41	-6.3	8.5	8.9	12.6
30	11.03	12.00	3.6	17.22	-2.1	5.7	23.36	22.49	2.6	29.14	-6.6	9.2	10.2	13.6 P
DECEMBER, 1857. 1	12.08	12.23	4.2	17.53	-1.8	6.0	24.42	23.27	3.0	30.04	-6.7	9.7	10.9	14.6 ○
2	13.16	12.51	4.6	19 19	-2.2	6.8							6.8	15.7
3	14.22	14.33	4.6	20.08	-1.8	6.4	1.49	0.42	3.4	6.55	-5.5	8.9	10.1	16.7
4	15.23	15.21	4.5	21.11	-1.8	6.3	2.52	1.37	2.9	7.47	-5.1	8.0	9.6	17.7
5	16.18	16.09	3.8	22.19	-1.9	5.7	3.50	2.30	2.4	8.50	-4.5	6.9	8.3	18.7
6	17.07	17.00	3.4	23.22	-2.3	5.7	4.42	3.28	1.9	9.41	-3.6	5.5	7.0	19.7
7	17.52	17.40	2.6	24.20	-2.6	5.2	5.29	4.31	1.1	10.23	-3.0	4.1	5.6	20.7
8	18.35	18.33	2.3	25.23	-3.3	5.6	6.13	5.54	0.5	11.34	-2.4	2.9	5.6	21.7 ☽
9	19.15	19.06	1.8	26.16	-3.4	5.2	6.55	7.39	0.6	12.42	-1.6	2.2	5.2	22.7
10	19.56	—	—	—	—	—	7.35	8.55	1.0	14.15	-1.3	2.3	—	23.7
11	20.37	—	—	—	—	—	8.16	—	—	—	—	—	—	24.7
12	21.21	22.00	0.8	28.25	-4.6	5.4	8.59	11.30	1.1	16.55	-1.6	2.7	5.7	25.7
13	22.07	22.39	1.1	29.04	-4.7	5.8	9.44	12.14	1.7	17.39	-1.4	3.1	6.4	26.7
14	22.56	23.17	1.1	29.29	-4.9	6.0	10.31	12.29	2.1	18.14	-1.6	3.7	7.0	27.7 A
15	23.47	23.44	1.3	29.54	-5.4	6.7	11.21	12.54	2.3	18.44	-1.8	4.1	7.7	28.7
16							12.13	13.23	2.3	19.28	-2.2	4.5	4.5	29.7 ●
17	0.39	0.23	1.1	6.28	-5.5	6.6	13.04	13.58	2.3	19.53	-2.2	4.5	7.8	0.8
18	1.30	0.52	1.3	6.53	-5.5	6.8	13.55	14.38	2.5	20.23	-2.2	4.7	8.0	1.8
19	2.21	1.27	1.2	7.42	-4.7	5.9	14.45	15.12	2.7	21.02	-2.1	4.8	7.4	2.8
20	3.09	2.02	1.3	8.07	-4.5	5.8	15.32	15.47	2.6	21.37	-2.1	4.7	7.1	3.8
21	3.55	2.45	1.0	8.45	-4.1	5.1	16.21	16.10	2.5	22.25	-2.2	4.7	6.6	4.8
22	4.40	3.45	0.8	9.20	-3.5	4.3	17.02	16.50	2.5	23.05	-2.5	5.0	6.0	5.8
23	5.24	4.45	0.6	10.12	-3.0	3.6	17.47	17.23	2.4	23.45	-2.9	5.3	5.4	6.8
24	6.09	6.09	0.7	11.21	-2.2	2.9	18.33	17.54	2.3	24.54	-3.3	5.6	5.6	7.8 ☽
25	6.56	7.49	1.1	12.34	-1.5	2.6	19.22	18.39	2.1	25.54	-3.8	5.9	5.9	8.8
26	7.47	9.19	1.4	14.07	-1.2	2.6	20.15	19.39	1.8	26.49	-4.7	6.5	6.5	9.8
27	8.43	10.28	2.0	15.28	-1.0	3.0	21.14	20.38	1.8	27.33	-5.2	7.0	7.2	10.8
28	9.45	11.18	3.0	16.43	-0.9	3.9	22.18	21.43	2.0	28.33	-5.4	7.4	8.4	11.8
29	10.51	12.13	3.4	17.43	-1.3	4.7	23.24	22.53	2.5	29.23	-5.6	8.1	9.0	12.8 P
30	11.58	13.02	4.4	18.23	-1.7	6.1	24.30	23.37	2.7	30.12	-5.6	8.3	10.0	13.8 ⊙
31	13.03	13.42	4.9	19.22	-1.8	6.7							6.7	14.8

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